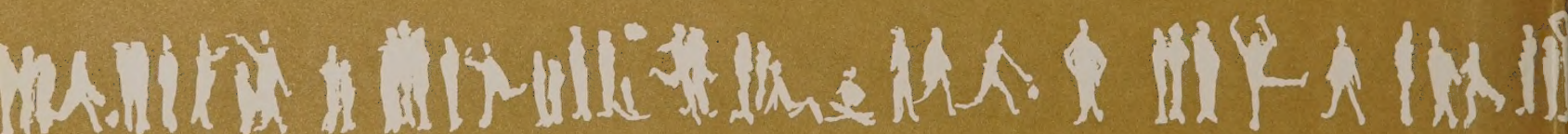


1964

KEWEENAWAN

MICHIGAN  
TECHNOLOGICAL  
UNIVERSITY







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Technological University)  
The Keweenaw

Doreen Gost  
c1964  
146 E.W.14.



✓



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# KEWEENAWAN



*Andrew Taylor.....*

*Editor*

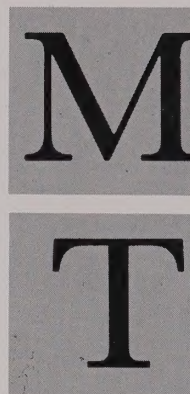
*Larry Gast.....*

*Business Manager*



## Foreword

The year 1964 has been an eventful one for Michigan Tech. Many events transpired to add to the history of Michigan Tech and to contribute toward its future growth and success. The year 1964 will long be a part of our memories, ranging from Homecoming and Winter Carnival, through participation in athletics and student organizations, the seemingly endless hours of studying, culminating, for some, in graduation, and Tech's designation as a university. This book presents the entire year, for the first time, in a pictorial record of these events.

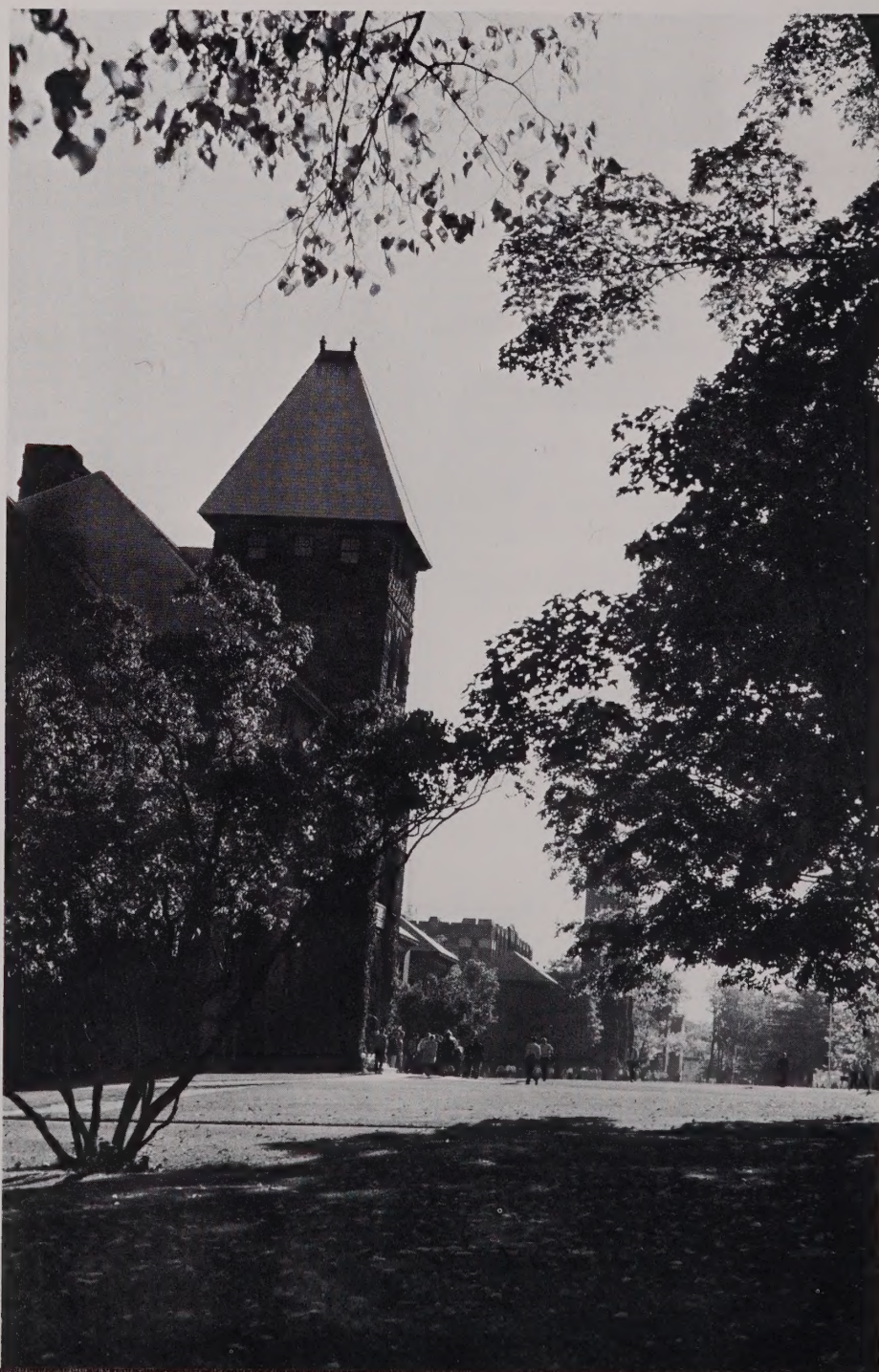


### *Michigan Technological University*

*Houghton, Michigan*

#### *Contents:*

<i>Administration and Faculty</i>	<i>56</i>
<i>Athletics</i>	<i>88</i>
<i>Organizations</i>	<i>148</i>
<i>Seniors</i>	<i>212</i>
<i>Advertisers</i>	<i>244</i>









## *Dedication*



*President and Mrs. J. R. VanPelt*





*Educator . . .*

*Administrator . . .*

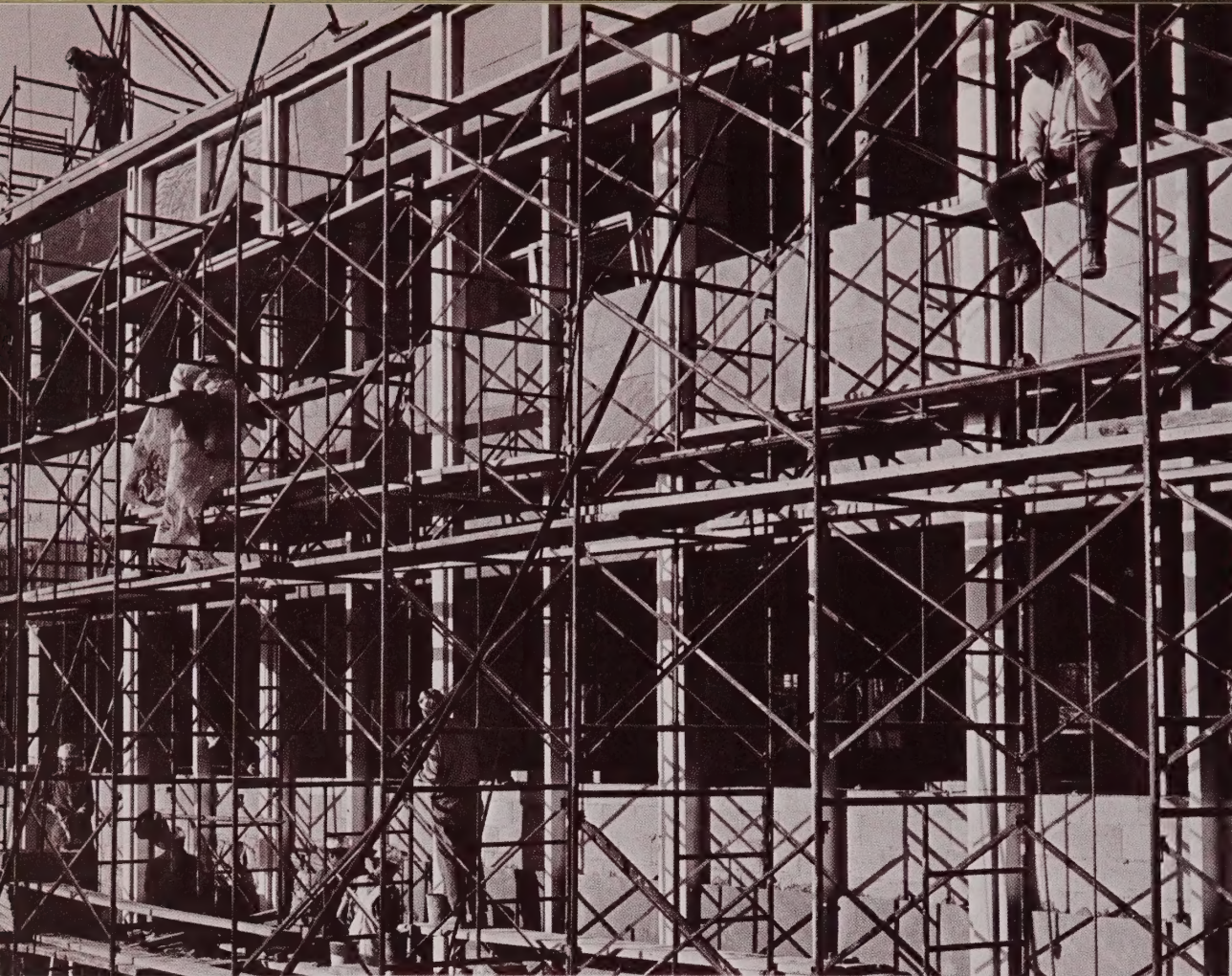
*Counselor*

In the eight years since Dr. and Mrs. Van Pelt came to the Michigan Tech campus, the University has experienced a period of unprecedented growth. A broadened academic program, increased student services, new buildings, and the change to University status all attest to Dr. Van Pelt's leadership and devotion to his job—furthering the growth of the University. Coupled with this intense work on the administrative level, Dr. and Mrs. Van Pelt have remained close to the students. Through their continued contact with student leaders, they have kept in touch with the problems and needs of the students. At the same time, they have informed the students of the administrative problems of the University.

It is for these and many other reasons, too numerous to mention, that we respectfully dedicated this 1964 edition of the Keweenaw to President and Mrs. J. R. Van Pelt.







The construction of Fisher Hall, the new mathematics and physics building, was well under way by

the Fall of 1963. The new facilities will be ready for use in September of 1964.

Hubbel Hall as seen through the Union windows provides a familiar background for a relaxing break from the classroom routine.



The walk to class is always slower during the warm months of early fall.







The new \$2.7 million Fisher Hall on the south side of College Avenue marks the progress and growth of the University . . .

. . . and presents a sharp contrast to the familiar buildings of the original campus on the avenue's north side.







Scheduling, a complicated process gone through three times every year, like it or not.

## *The Perplexities of Scheduling . . .*



Confusing, to say the least.

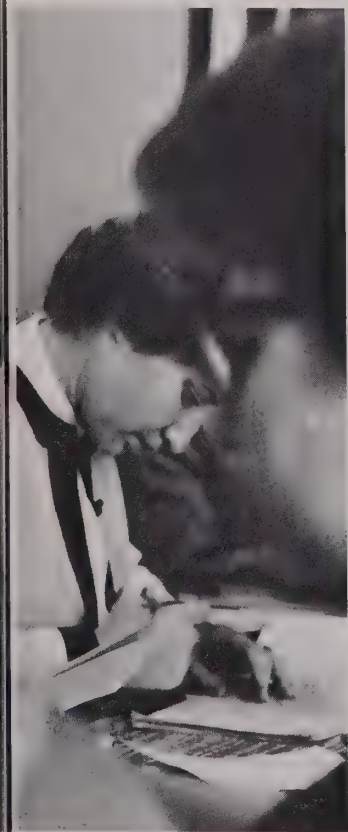






*... Quiet Discussions,  
Thoughtful Study,  
All Are Part of  
Campus Life.*

Whether discussing bridge design, sports cars, or girls, these engineers find the stairs of the Civil Building ideally suited to a relaxing break from classes during the warm fall months.



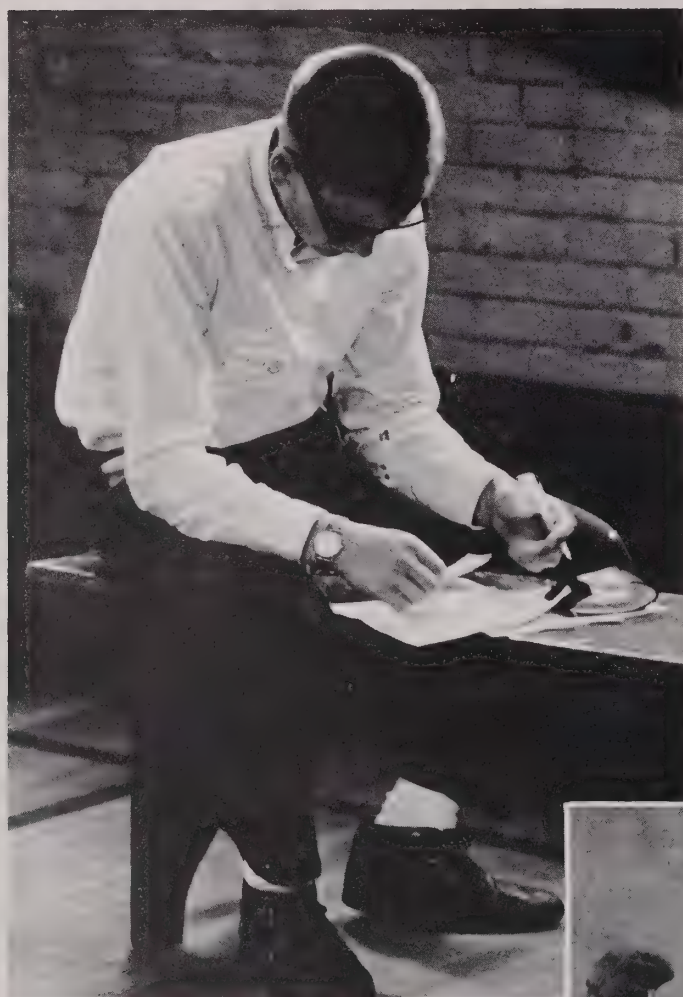
Even at Tech, where the men outnumber the women by a large margin, co-eds find time for study.







A freshman orientation group gets acquainted with the Tech campus.



The start of four years of filling out cards, forms, and tuition checks.

*Orientation Week Provides Frosh with Their First Look at Tech—Then Comes “Frosh Week,” and the Upper-Classmen Get a Look at the Freshmen!*







Victorious Frosh return from Mt. Ripley after the annual tomato fight.



The Freshmen storm Mt. Ripley, while seniors unleash a barrage of tomatoes from above.



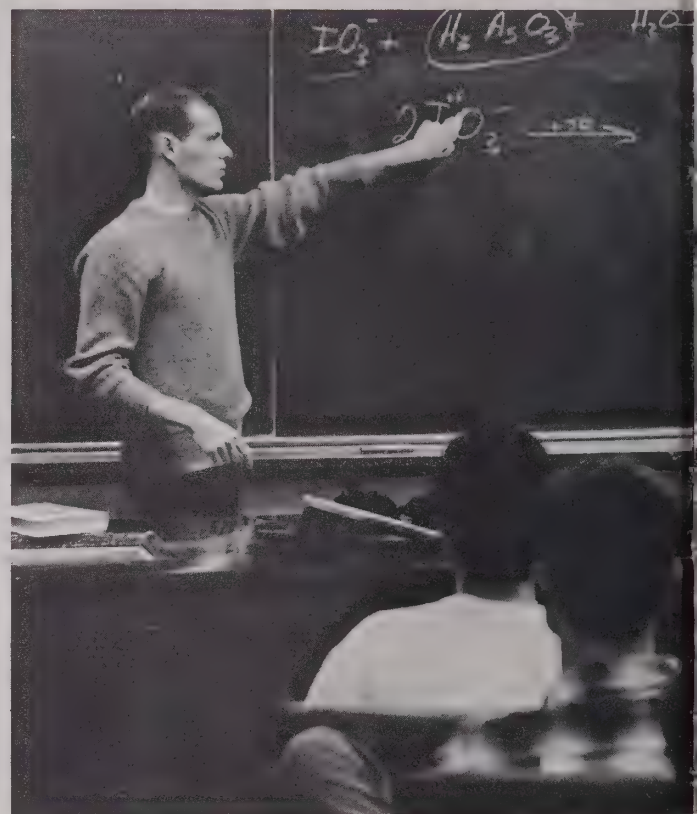
The "Kangaroo Court," with Justices Fuller, Gast, and Cline presiding, imposes its own brand of justice on erring Frosh.







Electrical engineering students examine an impedance bridge.



Student instructor Charles Weber lectures to freshman chemistry students.

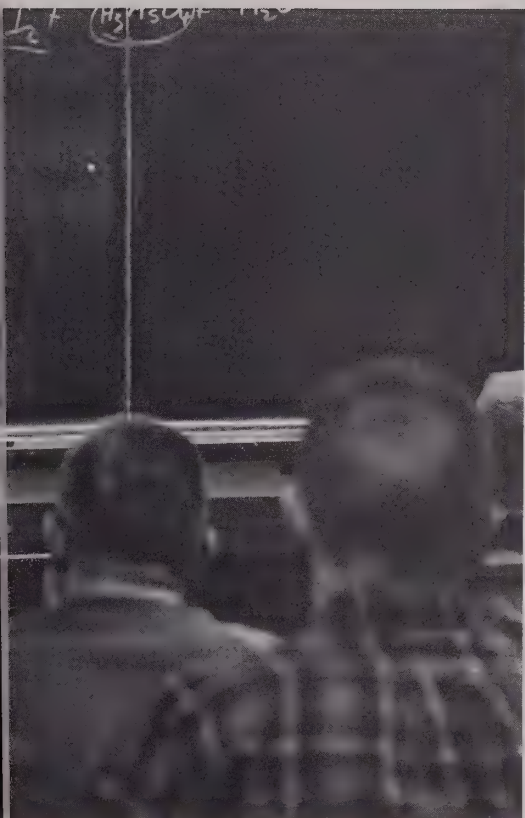


Prof. Steinhilb explains the uses of aerial photographs to a forestry student.

There is always the last minute typing of reports, a seemingly endless part of a Tech man's career.







As these forestry students are learning, mapping and aerial photography play an important part in forest management.

*The Academic Day for a  
Tech Student Is Varied  
and Interesting.*

Tech's foreign language labs are among the most modern in the nation.







Plenty of hot dogs for everybody  
—and everybody enjoys them.







A good chance to meet some of the nurses, as these men find out.



Some enjoy a game of football.

## *Tech's Annual Fall Holiday—K-Day*

K-Day gives the students a chance to get out and enjoy the beautiful fall scenery of the Keweenaw Peninsula, such as this overlooking the village of Copper Harbor.







## *Barbara Perlich Reigns Over 1963 Homecoming*

Barbara Perlich, a native of Wisconsin and a Michigan Tech co-ed who is majoring in chemistry, was chosen from a group of five contestants as Michigan Tech's Homecoming Queen of 1963. Dean Meese crowned Barb at the traditional Hobo Days Mixer, held at Dee Stadium.

The queen's homecoming court was beautifully represented by Mary Lou Juntala, Peggy Foley, Maria Mustonen, and Krystyn Rowbottom, all Michigan Tech co-eds.

The crowning of the queen marked the beginning of a fun-filled weekend which saw Michigan Tech's football team beat Moorhead State, clinching for the Huskies the NIC football title.

Homecoming Queen Miss Barbara Perlich

Queen Barbara and her Court reign majestically over the Homecoming Parade.





*Queen's  
Court*



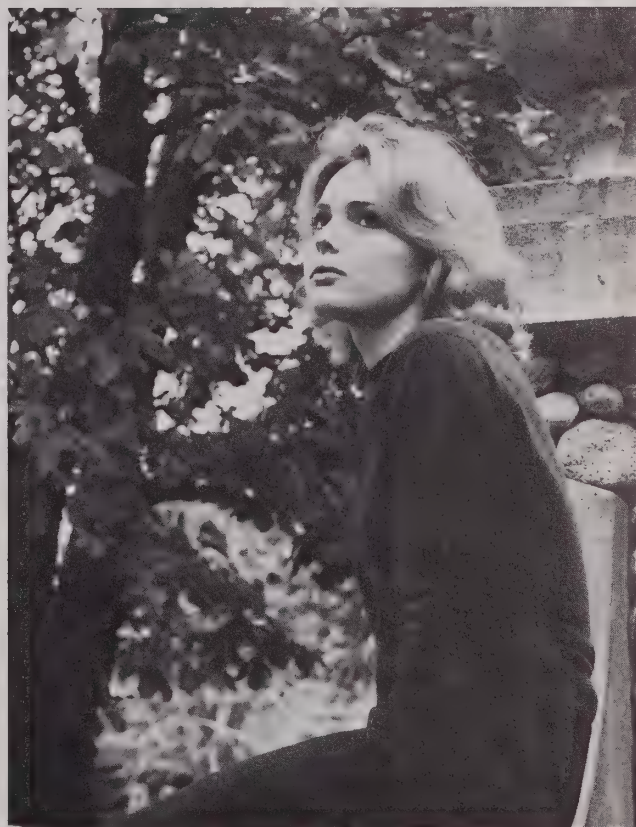
Peggy Foley



Mary Lou Juntila

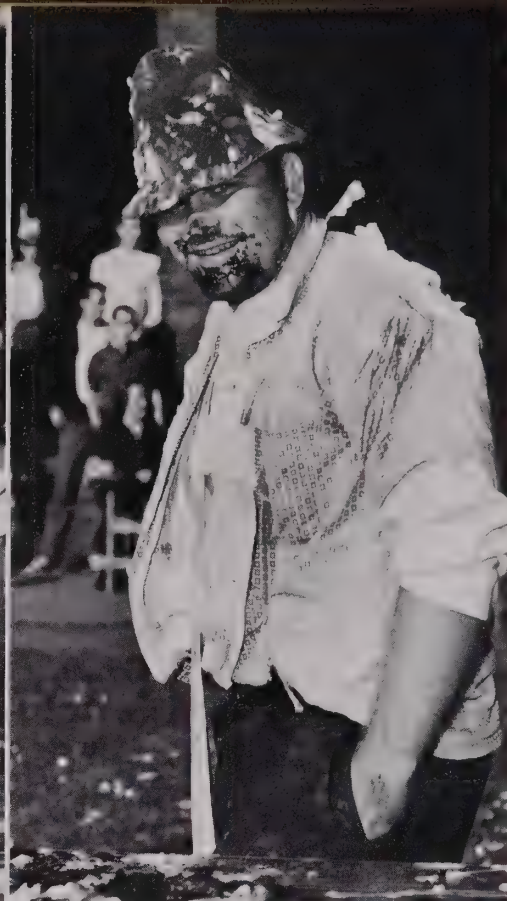
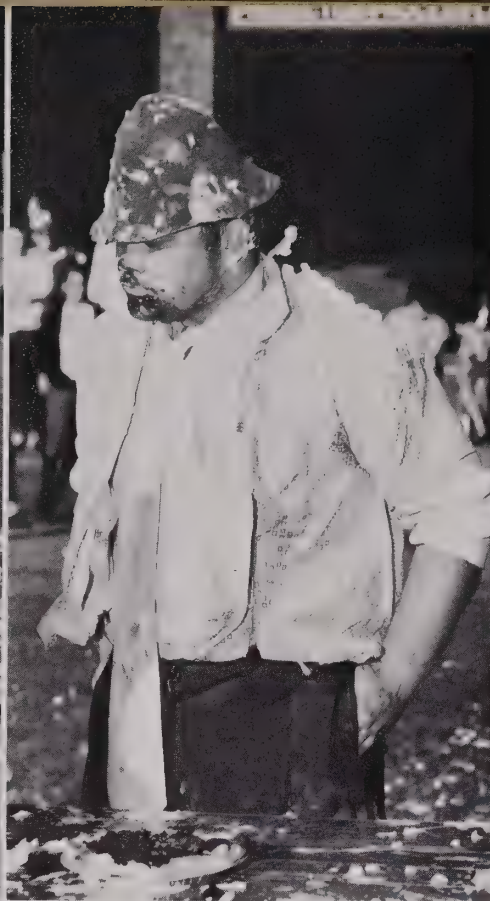


Maria Mustonen



Kristyn Rowbottom





A hungry hobo satisfies his appetite in a messy way during the pie-eating contest.

A hobo samples his bean lunch and finds it real tasty.

The egg throwing contest provided thrills for spectators and participants alike.





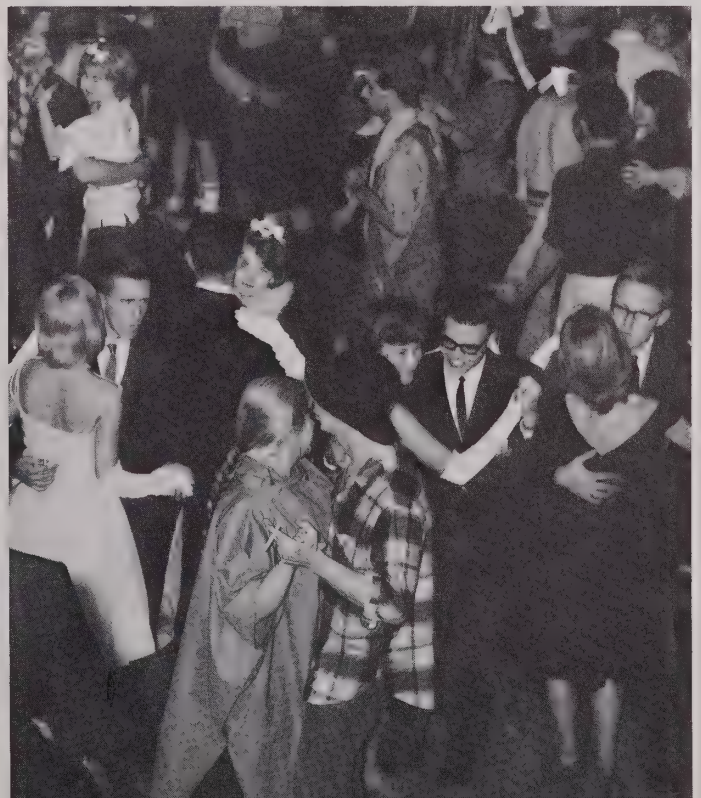


A hobo in a hurry!



*Homecoming Turns the Campus into  
a Hobo Village as Students Celebrate  
Hobo Days*

The "Hobo Mixer" climaxes the first day of Homecoming.







First place class "A" was taken by Theta Tau with their float, "High Tailing it."

*Parade, Game, Concert, and Dance Round Out  
the Most Successful Homecoming in History*



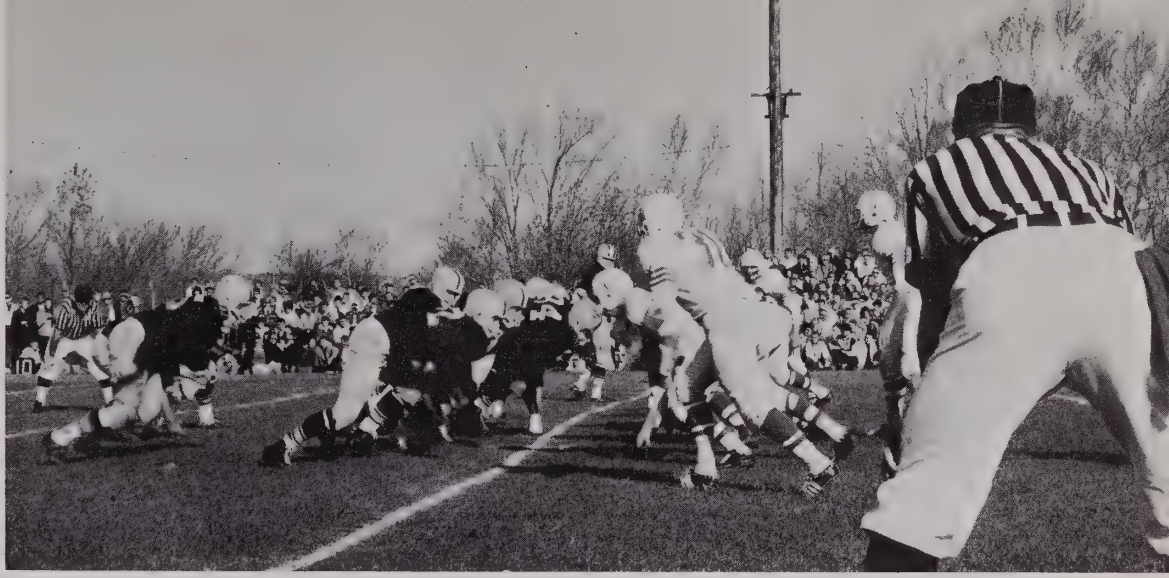
Phi Kappa Tau was awarded second for their "Puff the Magic Huskie."

The third prize winner was, "Ride Em' Huskies," by Delta Sigma Phi.





The action begins at the Homecoming game.



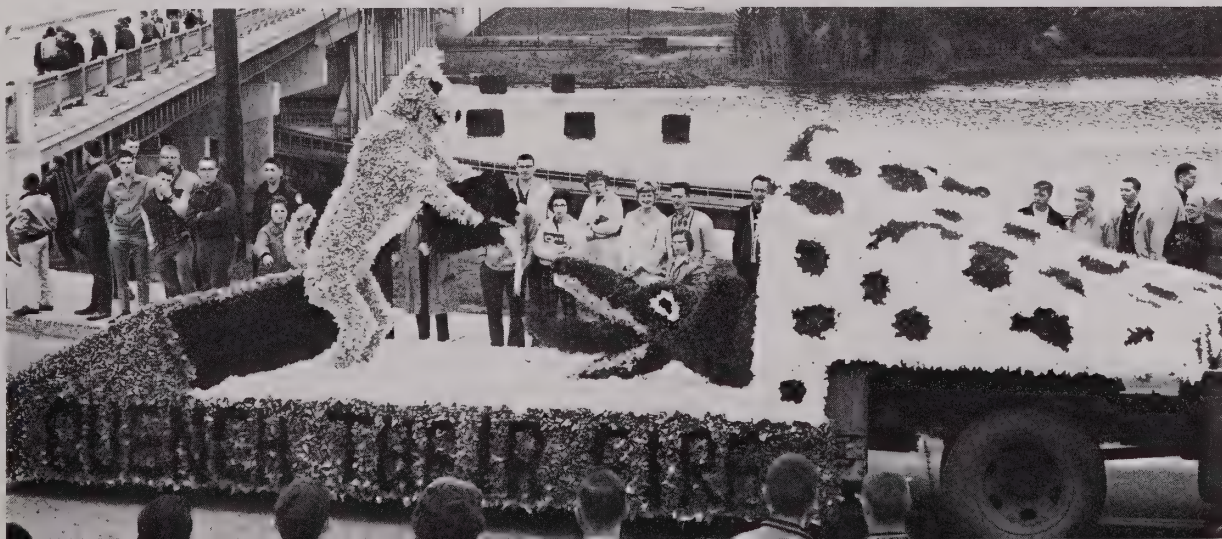
The Arbors entertained on campus for one of the highlights of Homecoming.



Tied for second, class B, was the AFROTC float, "Blast the Dragons."



First place, class "B" was Phi Lambda Beta with "Quench the Fire."







A popular folk singing group entertains on campus.

The Tech Tones harmonize Barbershop Style



Duane Douglass uses ventriloquism to entertain students.







Kaleidoscope visits Tech

*Concerts Entertain  
Throughout the Year*

South of the border entertainers come North to the border.



Mayo Loiseau and Richard Gray portray scenes from Oscar Wilde's productions











*Winter Arrives, Bringing  
with it Cold, Ice, Snow,  
and*  
**WINTER CARNIVAL**







Miss Peggy Foley registers her happiness and surprise as she is announced as the 1964 Winter Carnival Queen.

Dr. E. T. Williams, Michigan Tech's Vice-President, officially crowns Queen Peggy.



1964 Winter Carnival Queen, Miss Peggy Foley.







1964  
Winter Carnival  
Queen  
Miss Peggy Foley



## 1964 Winter Carnival Queen Candidates

One of the brightest parts of any Winter Carnival is the Queen competition. This Winter Carnival saw something new—a talent and an evening gown contest and the coronation of the queen presented on Monday evening of Carnival Week.

Candidates were Joan Brodeur, Mary Ojala, Peggy Foley, Delores Sormunen, Christina Rogers, Lois Lantto, Susan Sampson, Marjatta Valve, Dianne Port, Sandra Sorvisto, Linda Casteel, and Joan Hooper.

Peggy Foley was crowned queen as the Union Ballroom overflowed with 500 cheering people who witnessed the gala event.

Peggy, a freshman medical technology student at Tech, is 18 years old and resides in Hancock, Michigan.



Susan Sampson



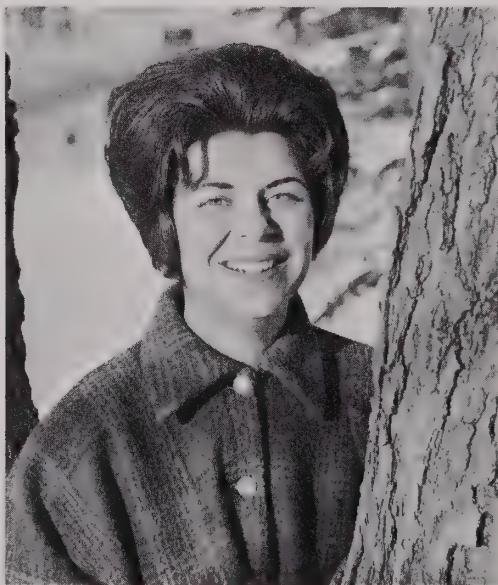
Marjatta Valve



Dolores Sormunen



Sandra Sorvisto



Joan Hooper



Dianne Port



Joan Brodeur





The Queen Candidates make a beautiful addition to a winter scene.



Lois Lantto



Linda Casteel



Peggy Foley



Mary Ojala



Christina Rogers





Filling the rough mold with wet snow is the first job in the construction process.



Cutting out the facial features is a delicate operation.

Final detail work is applied to a figure.





## *Snow Statue Construction Signals the Start of Winter Carnival Activity*

High on a scaffold or six inches from the ground, the detail must be added.



Mixing slush—the primary ingredient of snow statues.

College Avenue comes alive with lights as construction reaches its peak.







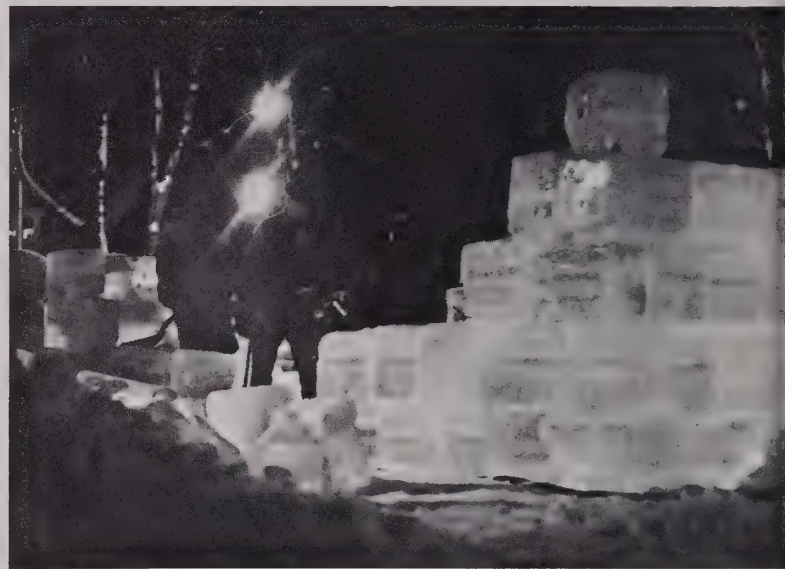
A student uses a machete to carve the snow into its final detailed finish.

The union snack bar is a busy place at 3:00 A.M. during the hectic final night before judging.



Out of a stack of ice blocks emerges the gingerbread house from "Hansel and Gretel".

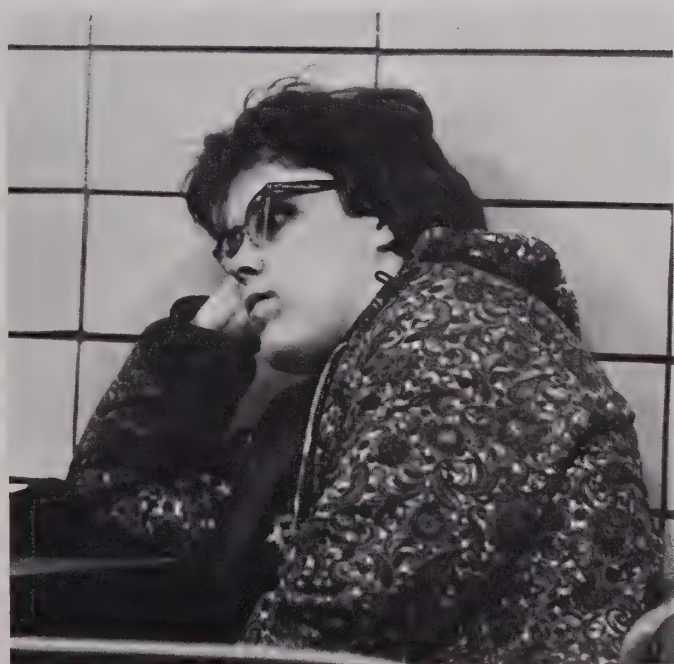
Framed by a window of their statue, several members of the "Triumverate" group take a pause from their work.







The early morning light finds last minute preparations being made for the judging which is soon to follow.



Weary from the long, cold hours outside, a student relaxes momentarily in the snack bar.

Ice covered tools silently attest to the fact that at last the statues are finished, at last the weary "sculptors" can retire to await the judges' verdict.







Kappa Delta Psi's "Rip Van Winkle", the beautiful first place statue.

Gov. George Romney poses with Queen Peggy Foley and Blue Key President Harry Askin in front of the winning statue.

*Kappa Delta Psi  
Sculptors Emerge  
Victorious in  
Snow Statue  
Competition*







*Independents Capture Second with "Hansel and Gretel". St. George and the Dragon Win Third for Triumvirate.*







First place, Class B, went to SNO-House, Phrozen Phifth with their beautifully detailed "Old Lady who lived in a Shoe".



A.S.C.E. took second in class B with "Billy Goat Gruff."

"Peter, Peter, Pumpkin Eater" won third place, Class B, for Sleepy Hollow.







"The Sword and the Stone" done by the Army R.O.T.C.



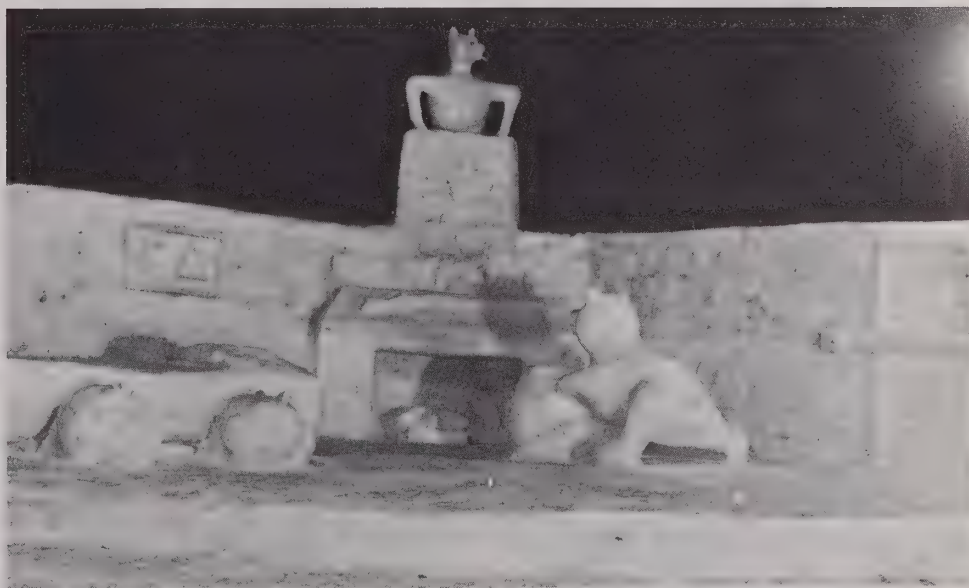
S.A.E. and A.S.M.E.—"The Tortoise and the Hare".



"Wind in the Willows" by the A.F.R.O.T.C.

## *Class "B" Statues*

Gamma Delta's "The Three Little Pigs".







Phi Kappa Tau's "Mad Hatter's Tea Party", from Alice in Wonderland.

## Class "A" Statues

"Little Red Riding Hood", by Beta Sigma Psi.



The Wizard of Oz, Theta Tau.







Sigma Rho—"The Little Train that could."



Left: "Winkon, Blinken, and Nod," by the Newman Club.

The Forestry Club—"Jack and the Beanstalk."







Theta Tau captured first place, Class A, with "The Legend of Sleepy Hollow", presented as a puppet show.



Second place in Class A was won by the Triumvirate, with their skit entitled "The Eternal Flight of the Findians."

*Skits Once Again Prove  
to be a High Point  
of Carnival Week.*

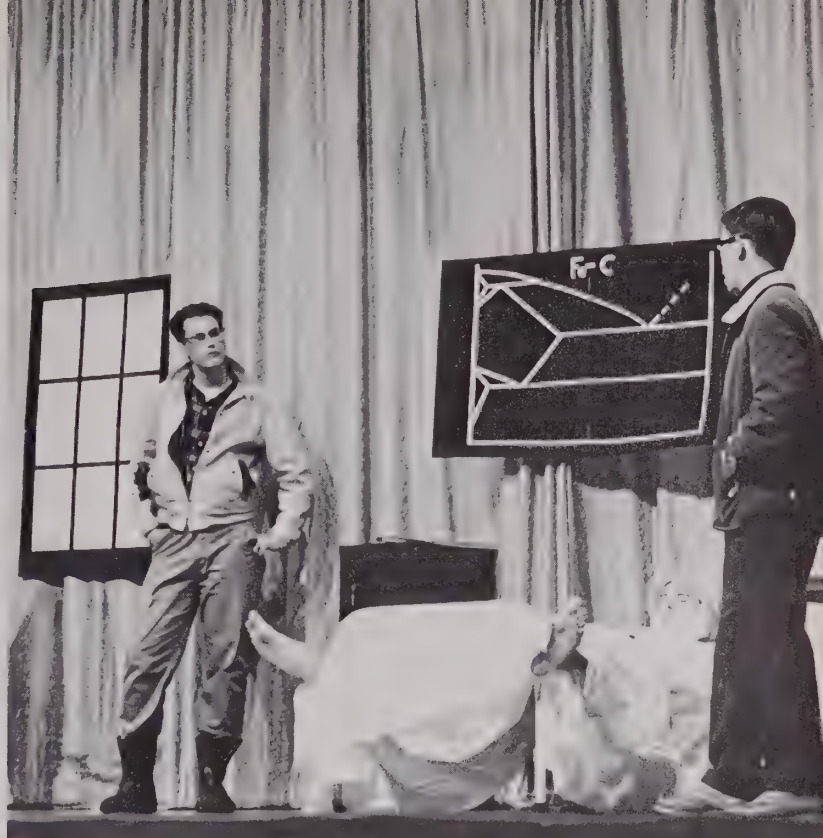
"Mr. Magoo Goes to Disneyland" took third place, Class A, for the Sigma Rho fraternity.







A.W.S. presented "Fractured Fairy Tales," the first place Class B skit.



"The Old Professor" won second place honors for the A.S.M., in Class B.

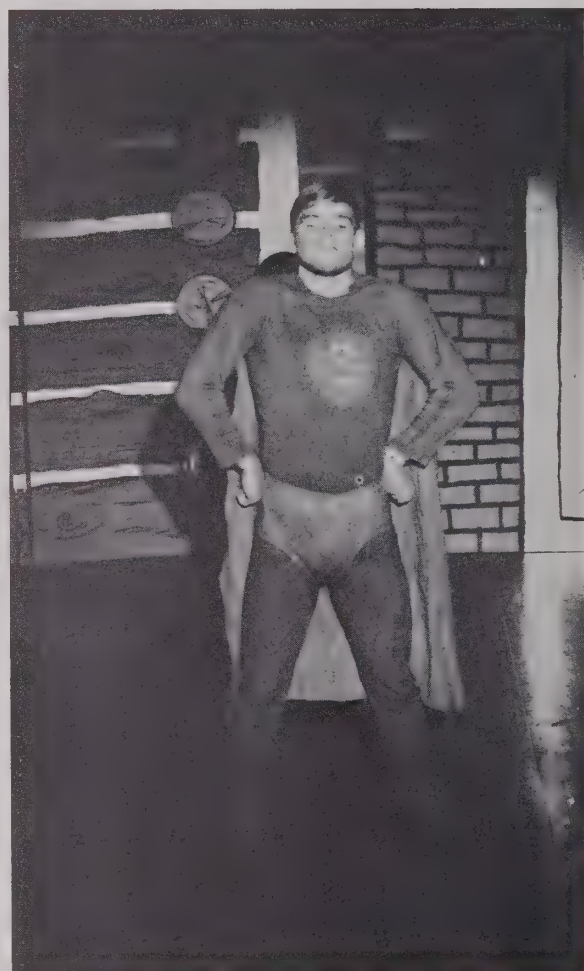
"What Ever Happened to Sister Violet," the Tech Wives' third place skit, takes place at a meeting of the American Witchy Wives Club.





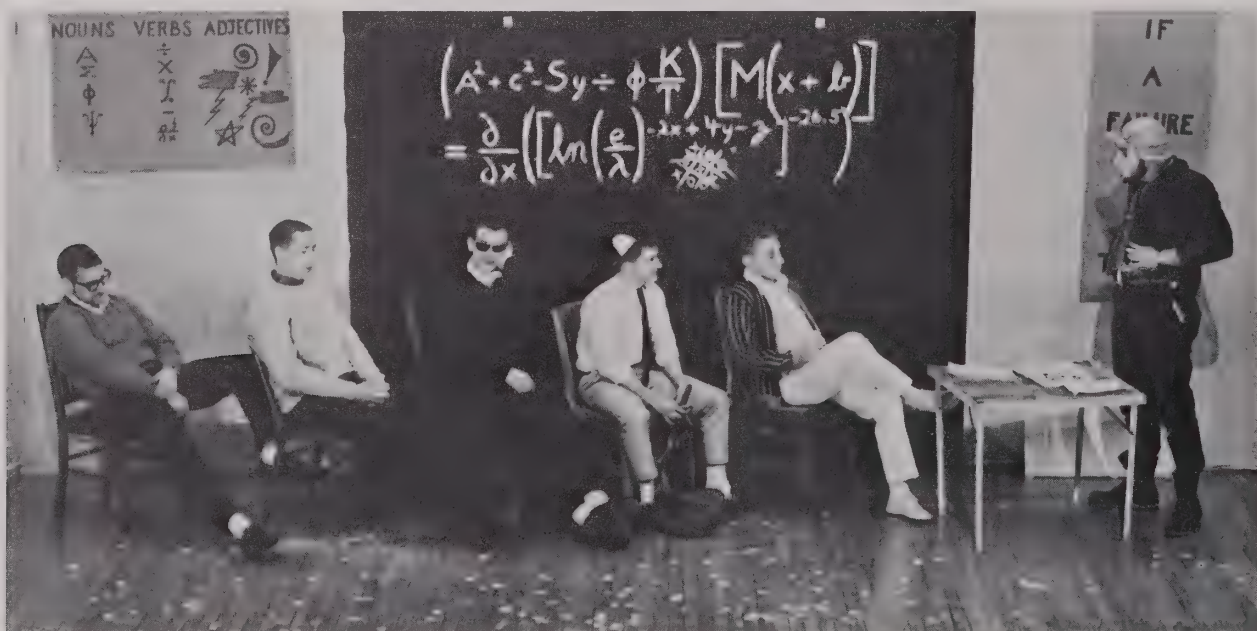


Kappa Delta Psi did a fine job in presenting an operetta entitled "Madame Horsefly", a take-off on the famous "Madame Butterfly."



It was "Superfinn" to the rescue in Delta Sigma Phi's "The Great C. and H. Stamp Crisis."

Phi Kappa Tau did a hilarious job of spoofing college life in "How to Succeed in College."





*Special Events Provide  
Thrills for Spectators  
and Participants Alike*



The Sig Ep dogsled team races against the clock.



The K.D.'s winners of the dogsled race, surge up the seemingly endless hill on their way to victory.

After the race, breathless agony.







The skating races are exciting to watch, but grueling.



The snow-shoe dashes—spills galore.



Broomball, where everyone has a chance to be a "hockey" star.



Cross-country snow-shoer starts his long grind.





Judging the Beard Contest, Col. Seale, Vic the Barber, and Col. Wagner.



Last minute trim from Tom in the Union Barber shop.



Vic gets up for a closer look.

The winners proudly display their crops and their prizes, one for each class of beard.







After hours of anxious waiting, the buses bringing dates for the weekend finally arrive.



The Four Preps entertained a packed house on Friday evening, and their well varied program was enthusiastically received by the Tech men and their dates.





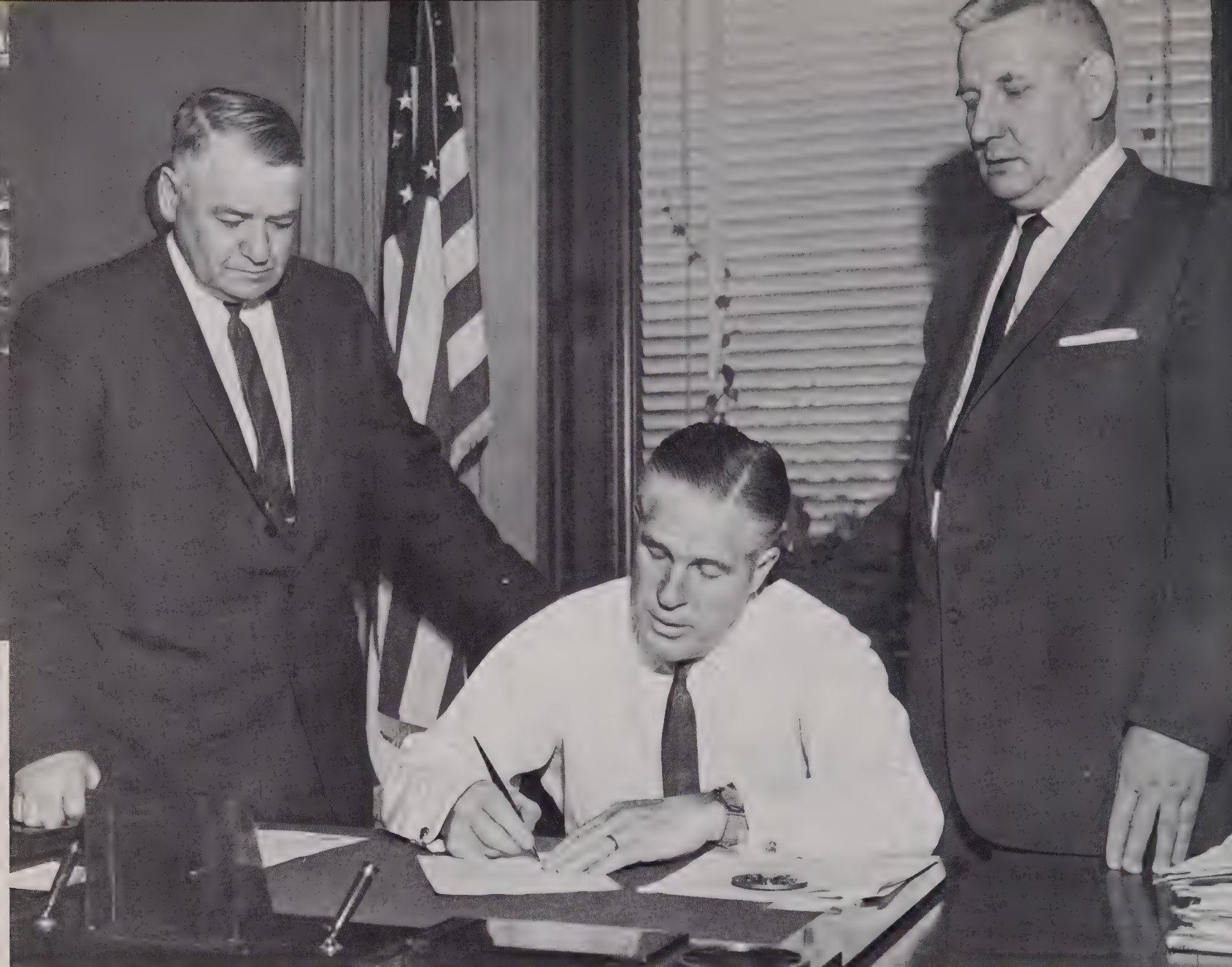
Blue Key president Harry Askin presents the overall Winter Carnival trophies to Jerry Hintz, Kappa Delta Psi president. The K.D.'s won a close battle for the honors by beating second place Theta Tau by one point, and third place Triumvirate by three points.



A wonderful week of activities draws to a close at the Sno-Ball, where couples danced to the music of Hal Munro's Orchestra.







Gov. George Romney signed legislation on December 27, changing the name of Michigan College of Mining and Technology to Michigan Technological University, effective January 1. Looking

on were the co-sponsors of the legislation, Rep. Clayton T. Morrison of Pickford and Rep. Russell Hellman of Dollar Bay.

## *Michigan Tech Becomes a University*





Gov. George Romney talking to Student Council President Brent Fuller and Dr. J.R. Van Pelt, President of the University.

## *Governor Romney Visits Tech Campus.*

Gov. Romney explains his tax program on the Tech Campus.

TAX REFORM <u>WITHOUT</u> TAX INCREASE	
REDUCTIONS	NEW REVENUE
.. Property Tax Deferral for Older Citizens	\$ 6 million
.. Exempt food from Sales Tax	\$91 "
.. Exempt drugs from Sales Tax	\$ 1 "
.. Repeal Business Activities Tax (Heaviest on New Business)	\$78 "
.. 20% across-the-board cut in school property taxes (State pays 20% of school tax)	\$93 "
.. Relief for Michigan breweries	\$ 1.5 "
.. Repeal of intangibles tax	\$35 "
.. Exempt New Business from Corporation Franchise Tax	\$ 5 "
	\$306 million
	2% Personal income tax \$216 million
	3½% Corporate " " \$ 81 "
	5½% Financial inst. " " \$ 9 "
	\$306 million





Tech's College Bowl Team, as they appeared to TV viewers. Charles Weber, Capt. Bill Massey, Byron Boyd, and Ray Ganga.

## *Tech Goes to College Bowl*



Practice session pits the team against a tough faculty team. They were pretty well matched.

Team coach Prof. Myron Berry, below, did a splendid job with the team, and deserves much of the credit for their good showing.



The boys huddle over a tough question during a practice round.



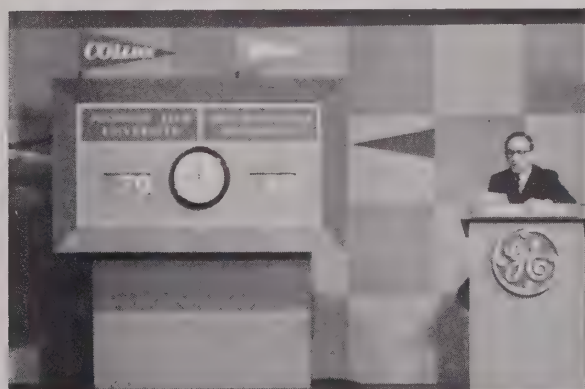


Tech's scholars find themselves pitted against a team from Ohio Wesleyan University. Although Tech put up a gallant struggle, the Wesleyan team squeaked out a victory.



When Byron Boyd's light flashed, it usually meant points for our side.

The scoreboard looked good during pre-broadcast practice session.



A warm reception at the airport let's them know that we were all proud of the job they did.







Dr. Van Pelt speaking at Michigan Tech's annual Honors Convocation.

## *Honors*



Tech's President Dr. J. R. Van Pelt presents the first annual Clair Donovan Award for Outstanding Service to Dr. Myron Berry for his efforts in selecting and coaching the team of varsity scholars which appeared on G.E.'s College Bowl TV program.





Dr. Walker Cisler, chairman of the board and director of the Detroit Edison Co., addressing the 12th annual Honors Convocation.

## *Convocation*

Receiving the Faculty Research Citation, for 1964 is Bart Park, Professor of Chemistry. Also honored was Prof. Edgar Wiedenhofer, Civil Engineering, as the Distinguished Teacher of 1964.







Dr. and Mrs. Van Felt receive graduates and parents at the "President's Reception" prior to exercises.

Before the exercises begin, guests relax and talk to old friends maybe for the first time.



## Commencement

The Processional.







Mr. Semon Knudsen, general manager of Chevrolet Division of General Motors Corp. addresses graduates and guests at commencement exercises.



Mr. Knudsen receiving honorary doctor's degree from President Van Pelt.

Graduates receiving degrees in Dee Stadium as proud relatives and friends look on.





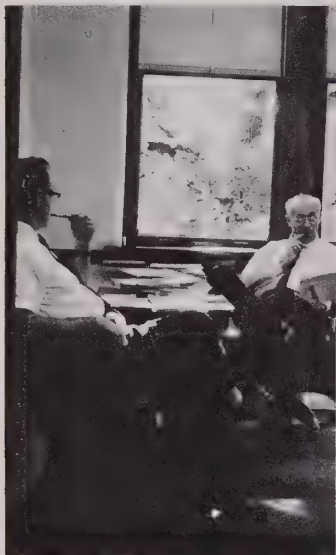
# FACULTY

One of the yardsticks used to measure the greatness of an educational institution is the intellectual strength of the Faculty.

Michigan Technological University benefits from an outstanding faculty, known for its research and publication activities as well as for its teaching ability.

*M*

*T*

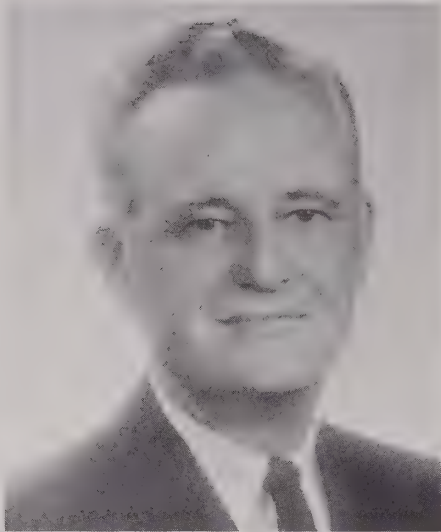








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The Board of Control is the governing board of the University and is composed of eight members. Members are appointed by the Governor and confirmed by the Senate of Michigan to serve terms

of eight years. Two members of the Board are appointed each alternate year.





DR. J. R. VAN PELT, PRESIDENT

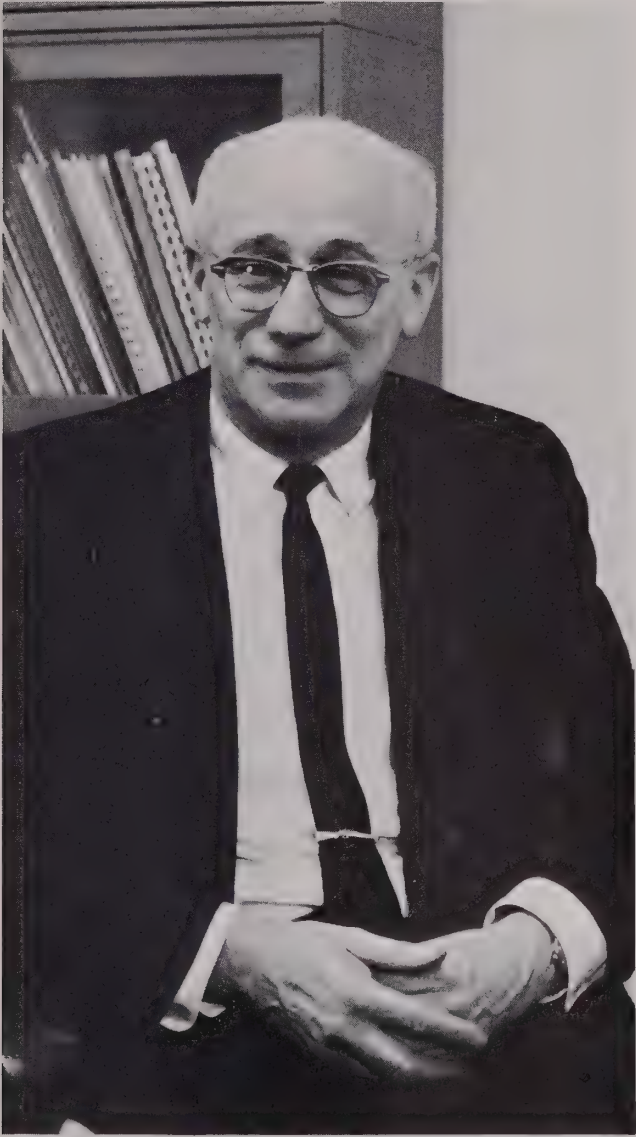




DR. E. T. WILLIAMS  
Vice-President



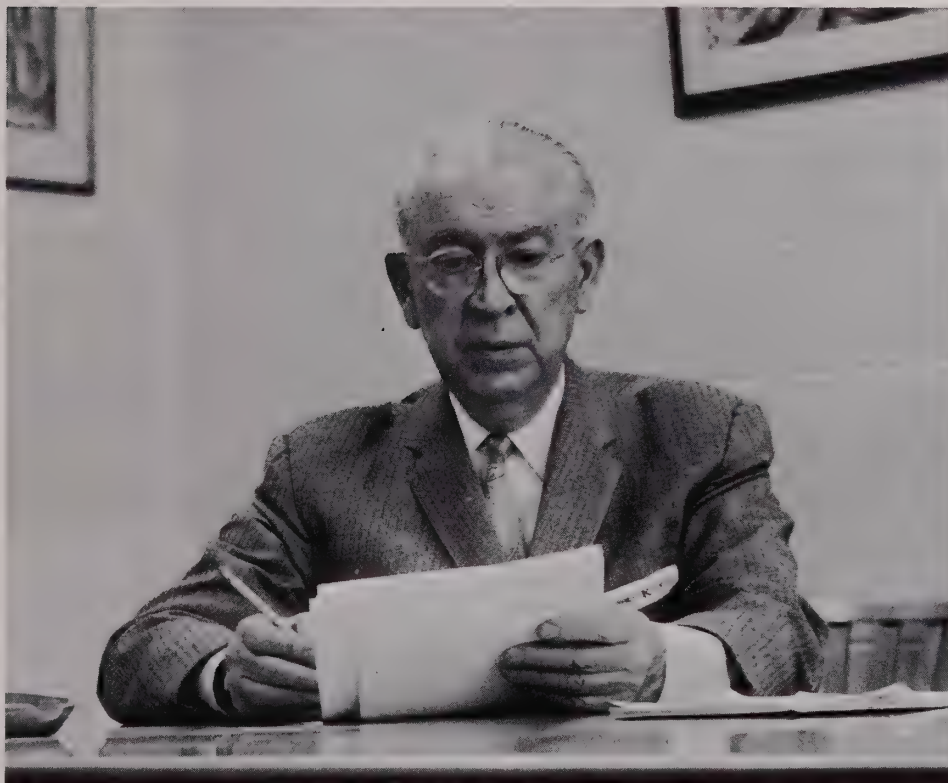
# ADMINISTRATION



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HAROLD MEESE  
Dean of Students

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A. R. HOWARD  
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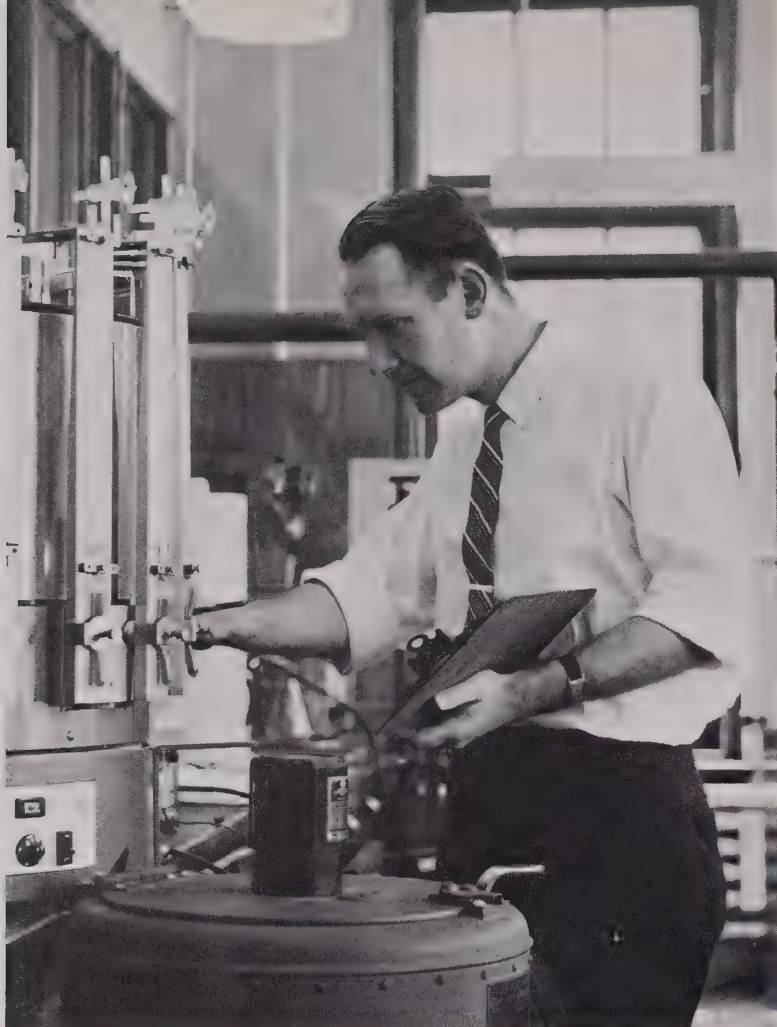


DR. DONALD G. YERG  
Director of Graduate Studies

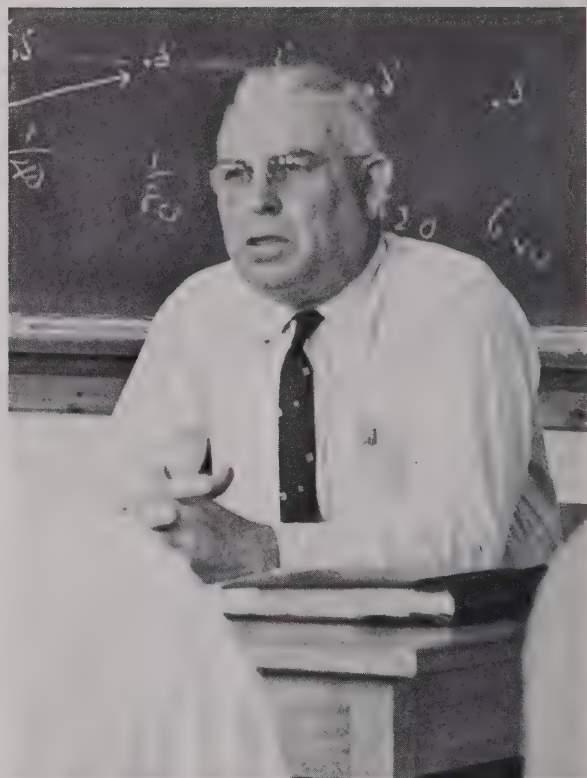
DR. R. L. SMITH  
Coordinator of Research







DR. JAMES D. SPAIN  
Department Head



DR. IRA H. HORTON

Laboratory work in biology.



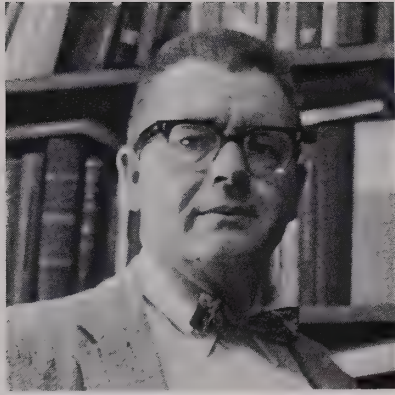
Not pictured Dr. R. T. Brown, F. H. Erbisch, and  
Dr. K. J. Kraft.

## BIOLOGICAL SCIENCES

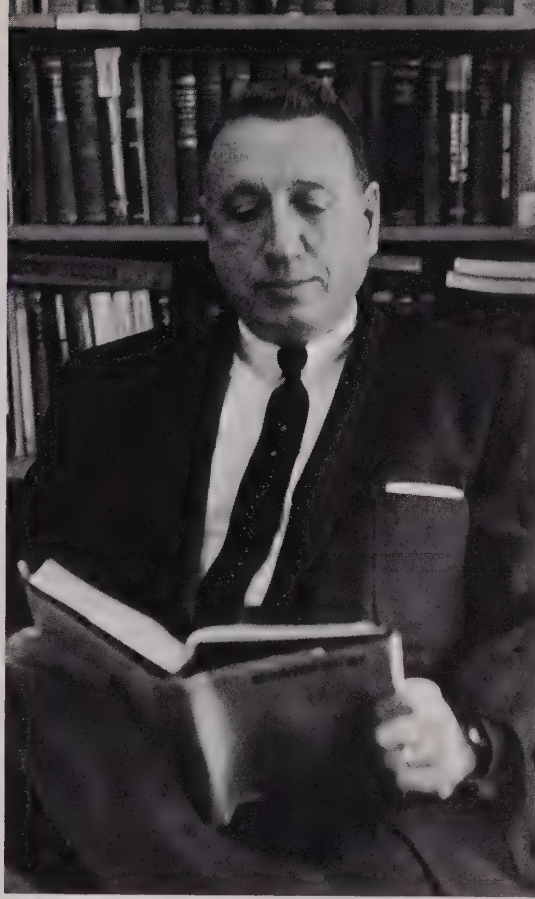
The curriculum of the Biological Sciences Department is designed to provide a basic knowledge of the theoretical as well as the practical aspects of living systems. The required courses stress the "how" and "why" of life, and are designed to expose the student to all the basic areas of Biological Sciences.

The Department offers course work leading to the B.S. degree in Biological Sciences and also in Medical Technology. In addition, it is carrying on a strong program in pre-medicine and pre-dentistry.





Dr. K. E. Schnelle



PROF. T. N. SMITH, Department Head



Prof. S. B. Tidwell



Prof. C. L. DelliQuadri



Prof. J. A. Romig

## BUSINESS AND ENGINEERING ADMINISTRATION

Graduating an ever-increasing number of students from Tech, the Business and Engineering Administration Department has become one of the major departments on campus and offers to its students, as well as to the rest of the campus, an opportunity to pursue a comprehensive curriculum concentrated on the options in accounting, economics, industrial relations, industrial management and marketing. This department fills an increasing need in business for students with broad training in business subjects as well as professional specialties. The B.S. degree is offered in business administration and in engineering administration, which is a five-year program. The M.S. degree is offered in business administration.

R. G. Chandler, J. C. Richard, L. J. Remington, P. C. Houx. Not pictured Dr. K. O. Alexander, P. W. Eaton, A. J. Johnson and J. C. Makens.



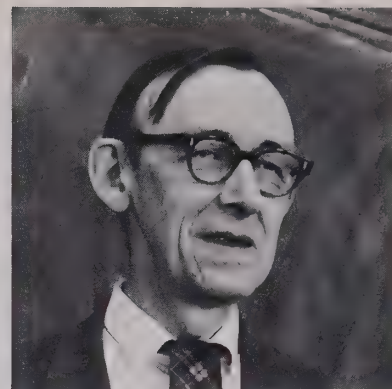




DR. LAWRENCE B. HEIN  
Department Head



Dr. Myron G. Berry



Dr. M. W. Bredekamp



Dr. G. M. Machwart



Prof. Bart Park



Dr. F. B. Wittmer

## CHEMISTRY AND CHEMICAL ENGINEERING

Chemistry and chemical engineering are concerned with the processing of raw materials into more valuable products for industrial and household use. Graduates go directly into industry or on to graduate school for advanced degrees. They may be employed in plant design, plant operation, research to develop new products or discover new principles, development of new methods for production of standard items, in technical sales, or in related areas. The curricula are directed toward the emphasis of fundamental principles so the graduate has the basic concepts needed for technical growth in his chosen field.

The nuclear engineering curriculum is included in the Department. Michigan Tech is a member of the Associated Midwest Universities group which trains advanced students in nuclear engineering. The combination of nuclear and chemical training offers the student in any of the three curricula a wide range of choice as to specialization.

R. E. Townshend, Dr. W. S. Layne, Dr. D. H. Kenny. Not pictured E. R. Epperson.



Dr. T. G. Ellis, W. K. Lehto, Nuclear Engineering.

Below: H. A. Abramson,  
Dr. L. G. Stevens, B. Park,  
F. T. Doane, Dr. E. L. Com-  
pere.







Dr. W. M. Haas



Prof. E. Y. Huang



DR. GEORGE A. YOUNG  
Department Head



Prof. L. A. Robert



Prof. E. P. Wiedenhofer

## CIVIL ENGINEERING

The Civil Engineering Department, one of the largest on the campus, permits specialization in structures, soils, construction, transportation, hydraulics, and sanitary engineering to supply the continually increasing demand for its graduates. The department offers both the B.S. and M.S. degree. Keeping up with the recent advances in the field, the Civil Department maintains an informed staff who are active in research problems in highway and sub-base problems, frost action in soils, and rock slide dam construction.



*FRONT:* W. Van Wagoner, R. Roger *BACK:* A. Tczap, G. Caspary, P. Grederick.

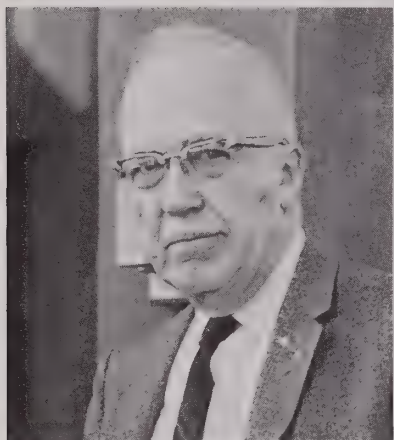


*FRONT:* P. Reddy, J. Fritz *BACK:* D. Schaible, O. Boutilier, R. Woods.





DR. JOHN R. CLARK  
Department Head



Prof. V. O. York



Prof. J. A. Oswald



Prof. C. S. Schjonberg

## ELECTRICAL ENGINEERING

The fact that the average starting salaries received by electrical engineers have been consistently higher than any of the other career fields indicates not only that there is a constant demand for these Michigan Tech graduates but also testifies to the excellence of the departmental staff that has as its goal the education of prospective engineers.

Now offering more than fifty courses in its field, this department is proud of the high academic standards that have been maintained in both its graduate and undergraduate programs. The Department of Electrical Engineering offers the B.S. and M.S. degrees.

*SEATED:* H. Klein, R. Belanger, M. Lind. *STANDING:* R. Horvath, H. Erickson.



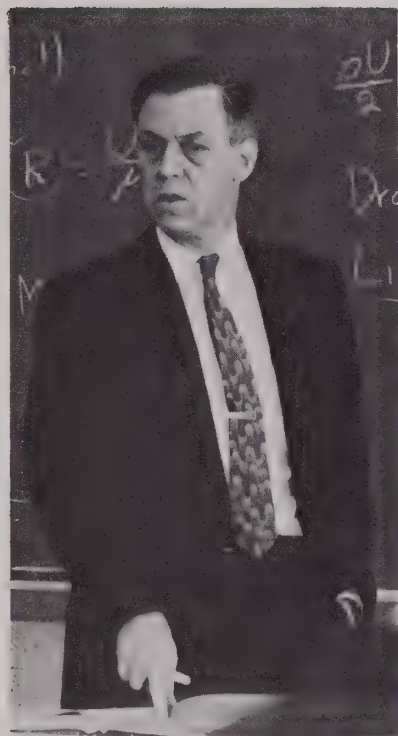
L. to R.: P. Lewis, K. Johnson, M. Lind, R. Jones. Not pictured, J. A. Soper.



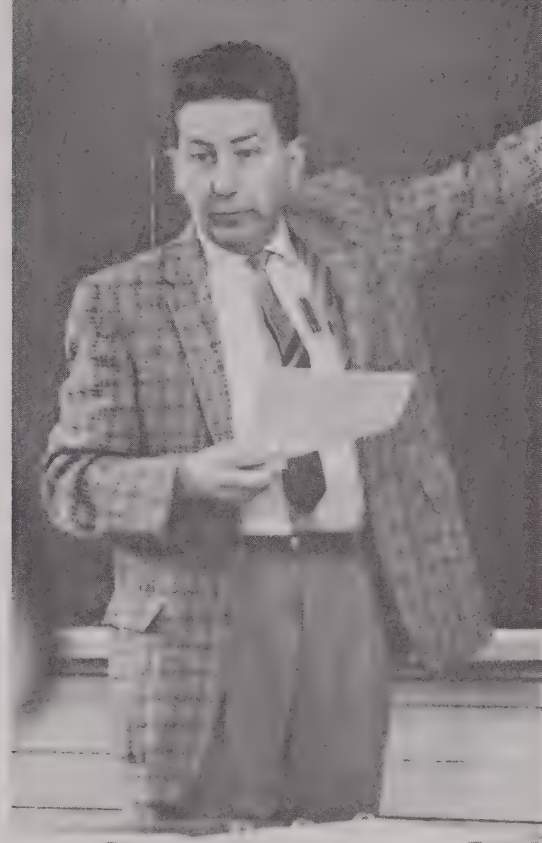




Dr. T. L. Chou



Dr. M. O. Peach



DR. CLYDE E. WORK  
Department Head

## ENGINEERING MECHANICS

The department of Engineering Mechanics offers the M.S. and Ph.D. degrees. This department serves the entire engineering curriculum with much needed basic engineering courses such as statics, dynamics and mechanics of materials. Departmental research includes mechanical behavior of structural materials and flow of fluids under various conditions.



*FRONT:* S. Woell, A. Weaver. *BACK:* W. Riipi, A. Giaquinta, R. Arola, D. Wallerstein, A. Shroff.



*FRONT:* B. Finn, N. Ganesan. *BACK:* Dr. J. Dalrymple, A. Plough, J. Stafford, S. Bhonsle, J. Cassan. Not pictured: Dr. B. Muvdi.





DR. GENE A. HESTERBERG  
Department Head



Prof. Vern W. Johnson

## FORESTRY

The Upper Peninsula's extensive forest areas and abundant wildlife make Michigan Tech an ideally located site for a school of forestry. This curriculum gives the student a fundamental knowledge of professional education in the principles of successful forest management practice. The wood industry has been basic to the economy of the Upper Peninsula for many years and this department, in conjunction with the Institute of Wood Research at Tech, has been instrumental in creating new jobs through its research in this field. This year a \$5,000 grant was awarded the department for the study of the genetics of the Sugar Maple. The Department of Forestry offers the B.S. degree.

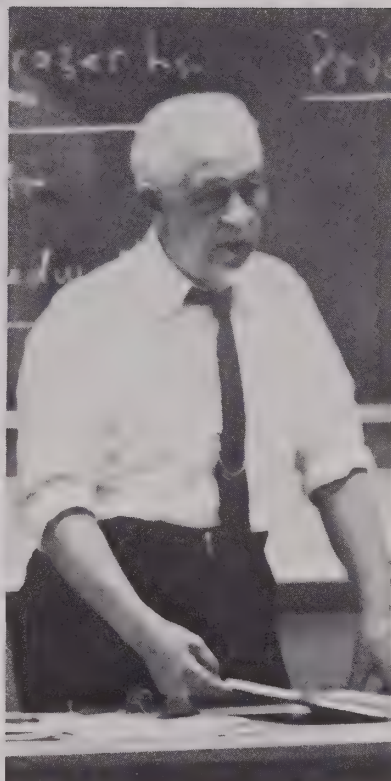
L. to R.: C. R. Crowther, R. L. Sajdak, P. W. Garrett, H. Steinhilb. Not pictured W. R. Wynd.



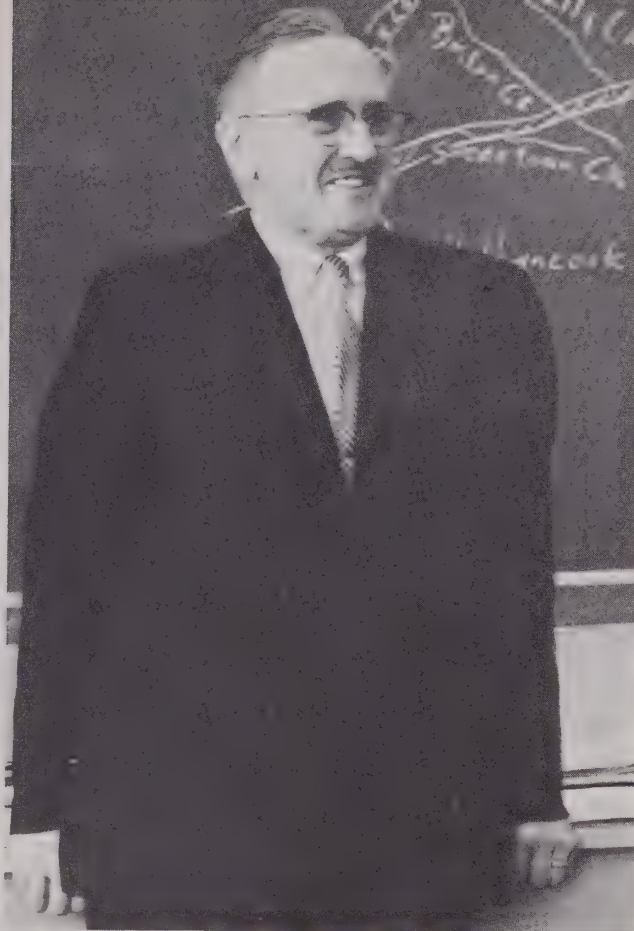




Dr. James Neilson



Prof. A. N. MacIntosh

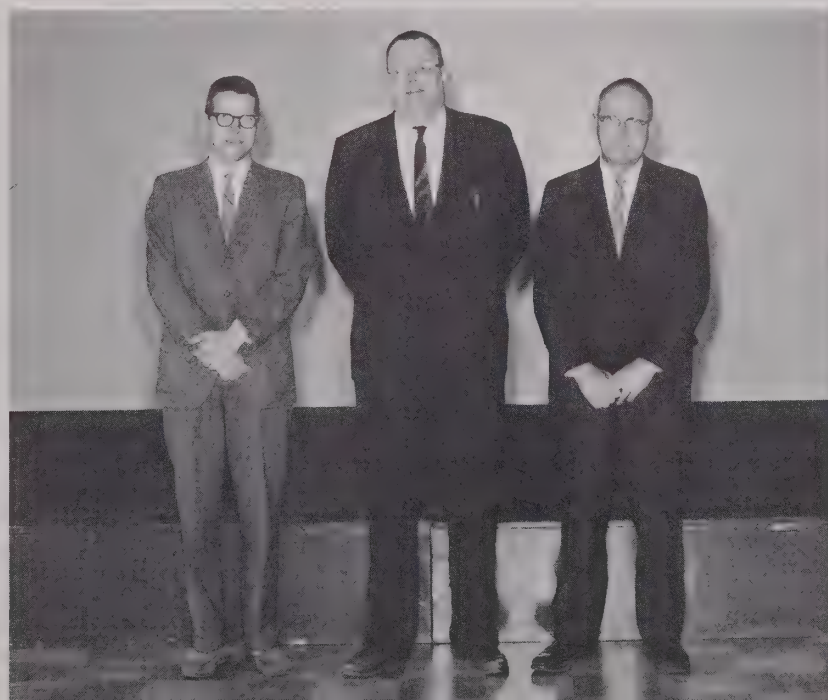


DR. A. K. SNELGROVE  
Department Head

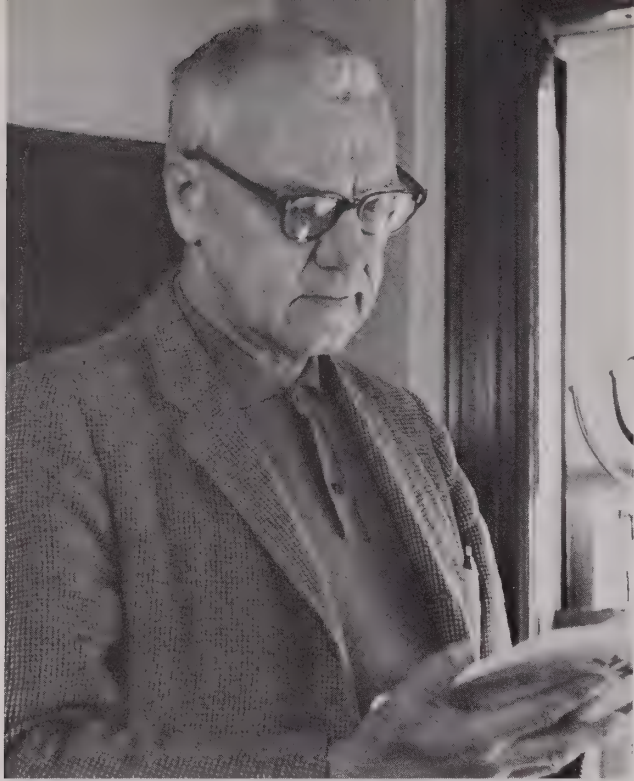
## GEOLOGY & GEOLOGICAL ENGINEERING

The Department of Geology and Geological Engineering prepares students for careers in mineral exploration and exploitation and for graduate work and teaching in a field in which nearly one half possess advanced degrees. The geological environment of the University provides unexcelled opportunities for study of classic sections illustrating geological formations of Precambrian age, as well as iron, native copper and other ore deposits. Under the guidance of this department, the student is brought into contact with geological materials and problems, both in the field and in the laboratory. The department offers the B.S., M.S., and Ph.D. degrees in geology and the B.S. and M.S. degrees in geological engineering.

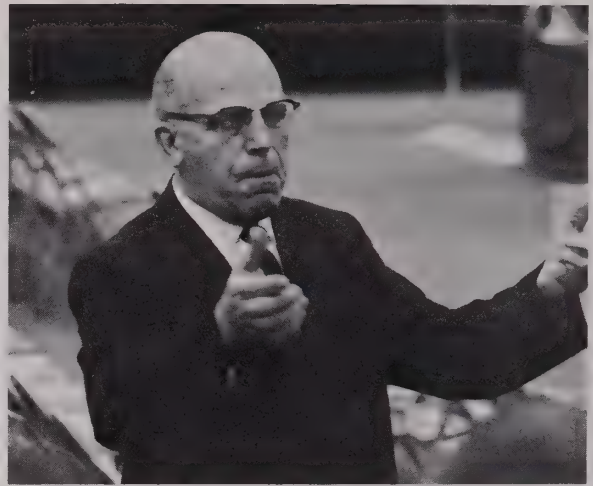
L. to R.: Dr. D. Pollock, Dr. S. Nordeng, Dr. J. Dobell. Not pictured Professor K. Spiroff.







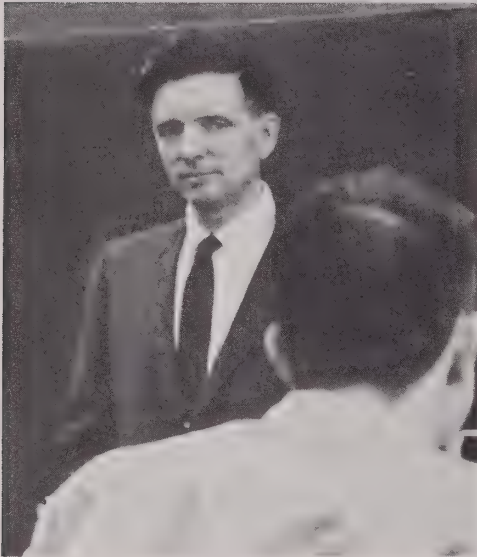
DR. BURTON L. FRYXELL  
Department Head



Prof. Franz B. Schubert

## HUMANITIES AND SOCIAL STUDIES

"With equal care weigh well the record of wisdom and the folly of mankind." Along with the development of oral and written communicative skills of students, the Department of Humanities and Social Studies emphasizes history and the great masters of literature. In essence, these are the principal objectives of the department, which serves all areas of the University. Approximately one-fifth of the Tech student's class time is devoted to the study of humanities and social studies.

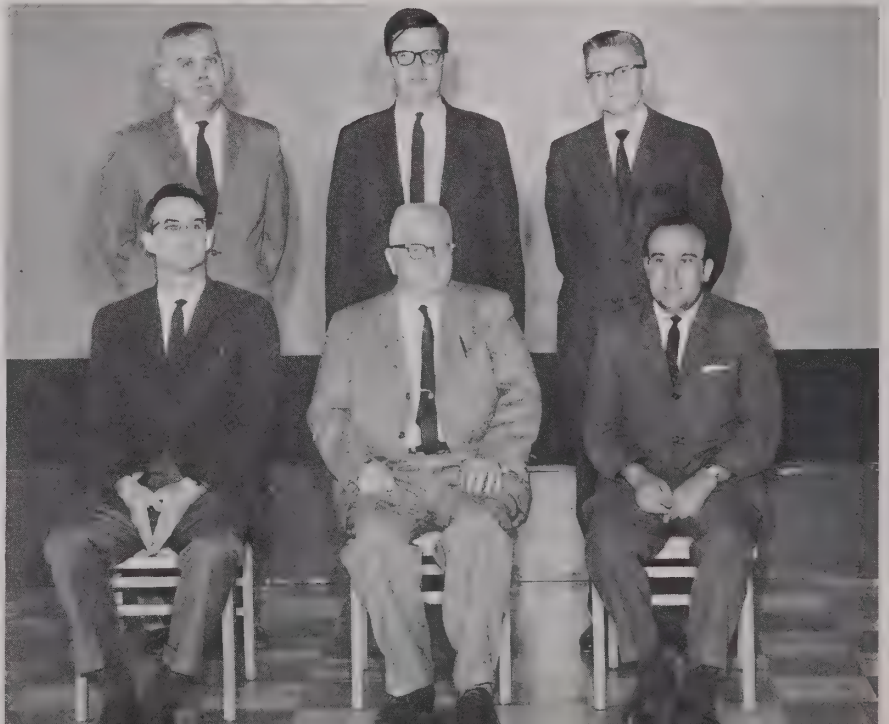


Prof. S. R. Price



Dr. L. Rakestraw

*SEATED:* R. G. Mason, R. A. Good, J. A. Baratto *STANDING:* Dr. Weinkauff, J. MacKillop, U. Golts. Not pictured T. Bloom, J. E. Cassidy, D. T. Halkola, J. B. Kirkish, H. A. Meeks, R. H. Miller, J. L. Shields, J. P. Steinke, J. R. Stevens, E. G. Toffolo, and E. F. Vandette.







Dr. Kenneth McMillin



Prof. Thomas Vichich



DR. G. C. BYERS  
Department Head

## MATHEMATICS

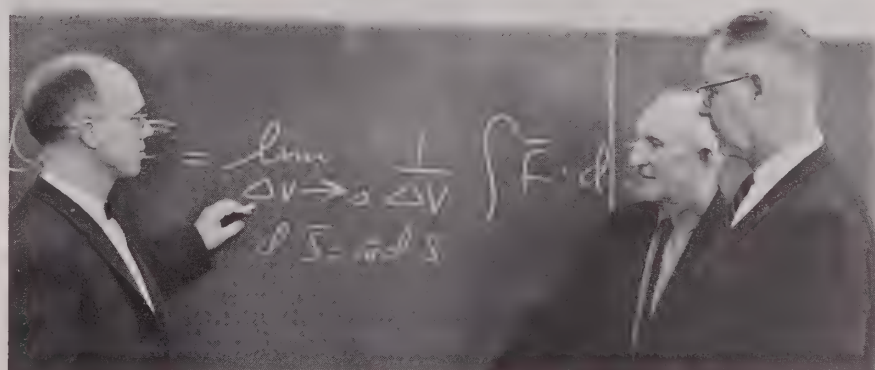


Prof. George Bahrman



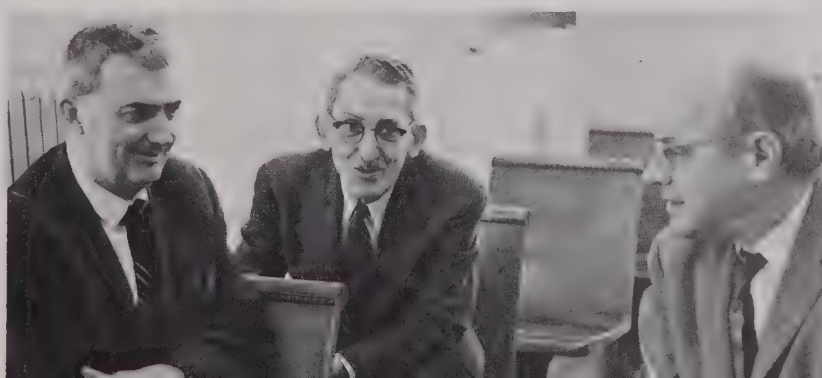
B. Iglewicz, P. V. Anderson, R. Snell, G. Ortner.

To more completely understand our complex world, we find we need a method to logically describe physical phenomena in symbolic terms. This is why mathematics is considered a necessary tool for the person studying in the areas of engineering or science. The Mathematics Department, by constant study and reevaluation, attempts to orient its offerings to the current and future needs of the engineering and scientific community. To keep abreast of developments, the Department encourages research by staff members; it supports research in most of the school's other teaching departments and research agencies through consultation and its analog and digital computer facilities. The department has offered National Science Foundation summer institutes. The department offers the B.S. and M.S. degrees.



H. Anderson, R. Rodefer, D. Davis. Not pictured R. Lindstrom and D. Dawson.

Right: W. Funkenbusch, Dr. W. Willits, A. Boggs.



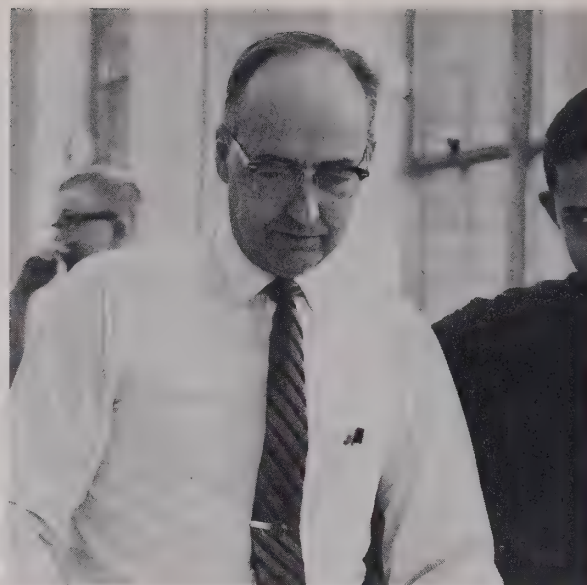




Prof. E. W. Niemi



Prof. Richard Bayer



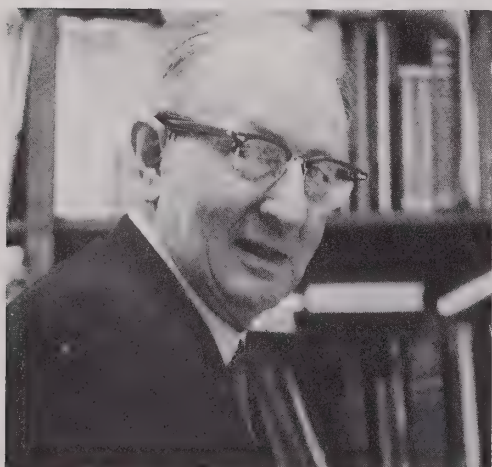
Prof. H. W. Hawn

## MECHANICAL ENGINEERING

Mechanical engineering is one of the broadest fields in the engineering profession. Nearly every human endeavor, public or private, requires the mechanical engineer's services or deals with products of his labors. This department offers to its students options of heat and energy conversion, design and development, and production engineering. The student, although he may specialize in one of these options, is given a basic education in the engineering sciences and in the broader aspects of mechanical engineering. The department offers the B.S. and M.S. degrees.



*SEATED:* W. S. Harjala, R. Wehmanen, Dr. W. J. Frea. *STANDING:* R. Hagen, R. Papworth, P. Koski. Not pictured A. W. Gibson, M. W. Hughes, R. W. Kauppila and F. E. Wittig.

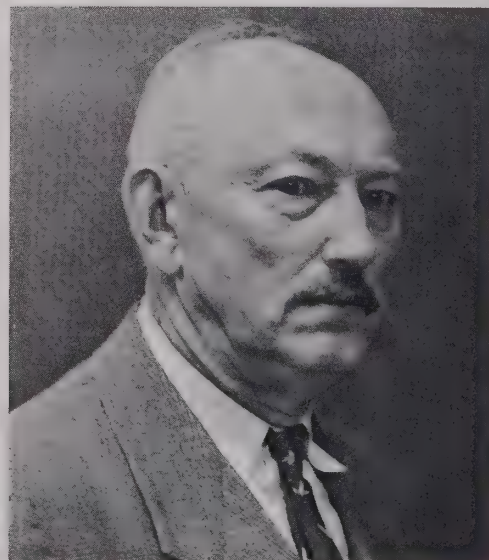


Prof. A. P. Young

Below, left: J. Anderson, R. Trudgeon, S. Allen, M. Laitinen, *STANDING:* H. Carlson, P. Hainault, J. Laurn, R. Curtis.



Right: Dr. J. Inveiss.

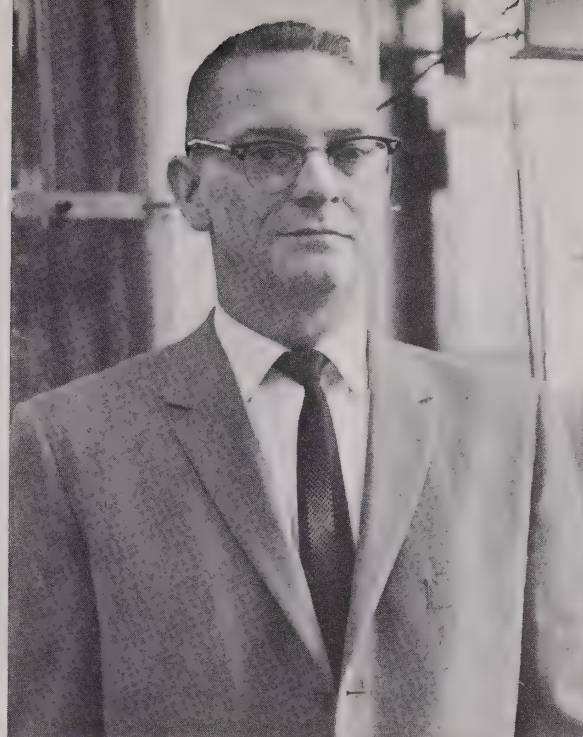






Prof. R. J. Smith

DR. RAYMOND L. SMITH  
Department Head



Prof. G. W. Boyd

D. Thayer, Dr. R. Blumenthal.



## METALLURGICAL ENGINEERING

Research has grown very rapidly in the Department of Metallurgical Engineering in the past three years. The department now has sponsored research amounting to about \$120,000 per year.

This work supports undergraduate and graduate students and faculty members during the summer. It provides research equipment of use to all students and funds for faculty travel. The main research areas include:

Equilibria in gaseous reduction of iron minerals and mixtures thereof, directed toward non-sintering temperature range.

Reaction rates in the decomposition of magnetite to iron using vacuum and inert gases.

Preparation and study of ultra high purity iron.

Studies of solid solution hardening.

Defect studies on deformed semiconductors.

Defect structure in non-stoichiometric oxides.

Chlorinated and sulfonated lignins as depressants for iron oxide.

Concentration of Michigan low grade oxidized ores.

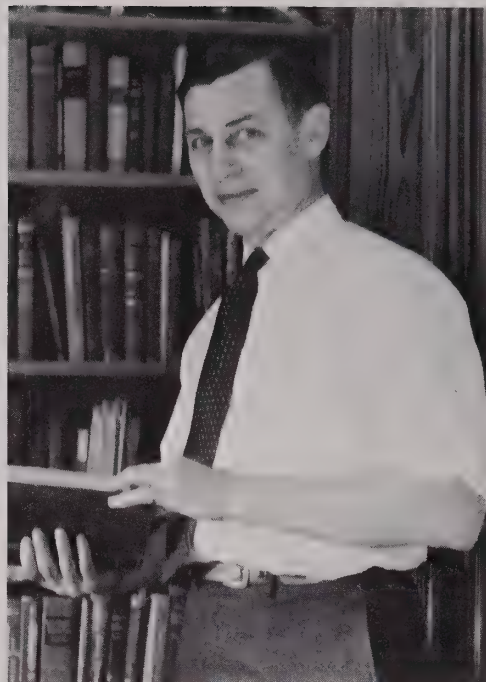
L. to R.: Dr. A. Hendrickson, E. Koepel, Dr. L. Heldt, J. Van Westenberg.







PROF. WALFRID BEEN  
Department Head



Dr. C. J. Hall

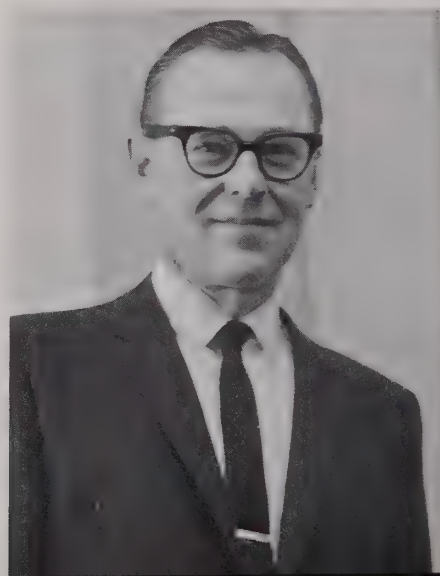
## MINING ENGINEERING

The last five years have seen the initiation of new research and engineering activity in the mining industry. After years of complacency generated by an oversupply of mineral resources, there has been a realization of the need for a marshalling of all the available sciences to the task of mineral supply. This past year saw the demand for new mining graduates exceed the supply by a high ratio. It is the opinion among the professional societies of mining and mineral engineers that the demand will continue to grow over the next half century. It will continue to be the goal of Michigan Tech to participate in this growth by maintaining the high quality of its graduates.

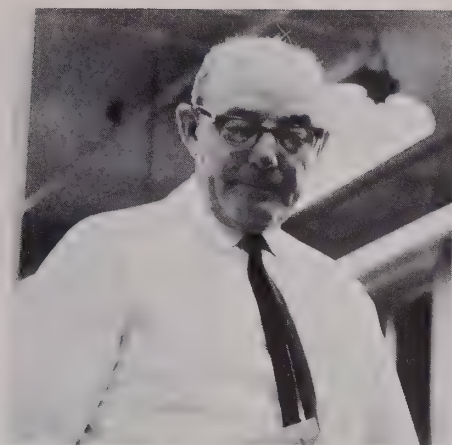


T. J. Gaffney

C. K. Olson



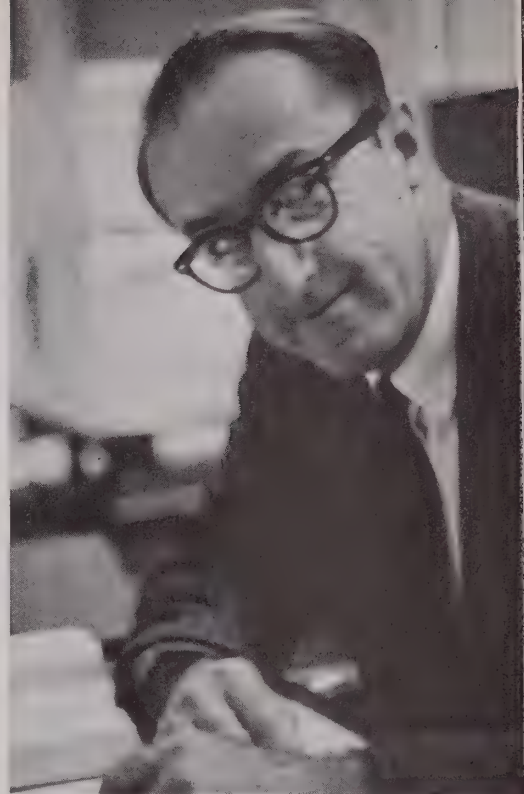




Prof. W. A. Longacre



Dr. Donald Yerg



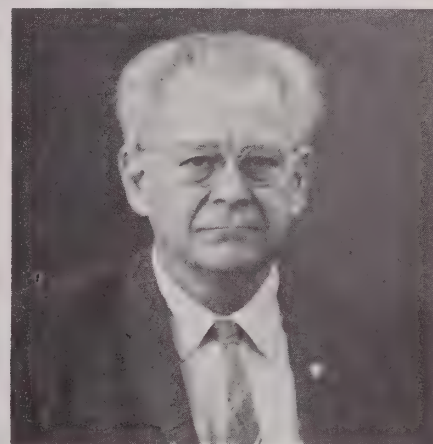
DR. DEAN STEBBINS  
Department Head



Prof. L. Bacon



Dr. R. O. Keeling

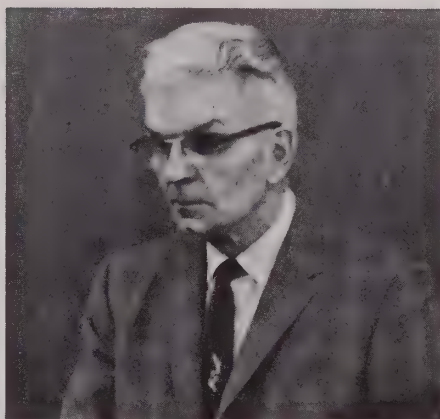


Dr. H. R. Mitchell

## PHYSICS

Physics is a study of our natural environment for the purpose of understanding and explaining the behavior of the most minute fundamental particles, material and phenomena in everyday experiences, the solar system, stars, and distant galaxies. Examples of subject matter of interest to the physicist are mechanics, wave motion, electrical phenomena, nuclear phenomena, high energy phenomena, solid state phenomena, thermal phenomena, and astrophysics.

Courses taught include general physics for non-departmental majors, advanced physics for students in physics, applied physics, and geophysical engineering majors at the baccalaureate level, and courses for physics and geophysics majors at the masters degree level. Research is conducted in analog simulation, geophysics, ionospheric physics, x-ray crystallography, Mossbauer effect, and instrumentation techniques.



Prof. C. Pratt

SEATED: R. Mount, P. Shandley, K. Baldwin. STANDING: P. Parks, P. Hinzman. Not pictured: Prof. D. Wyble, D. Chimino.







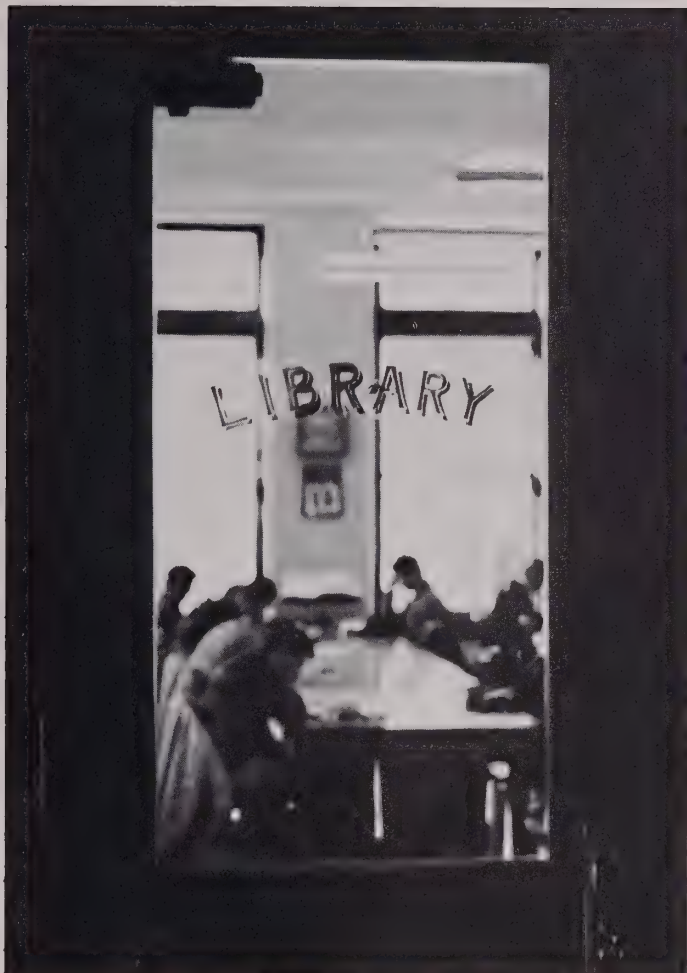
*SEATED:* Prof. R. Benoit, Prof. A. J. Bovard, Department Head, V. Cox. *STANDING:* W. Lucier, O. LaJeunesse, J. MacInnes, A. Holmes.

## PHYSICAL EDUCATION

Hockey is one of the most popular of the twelve varsity sports offered by Tech's Athletic Department. The Department also sponsors sixteen intramural sports.







R. D. Patterson, J. Mood. Not pictured: Miss M. Gibson, Miss F. McGee.

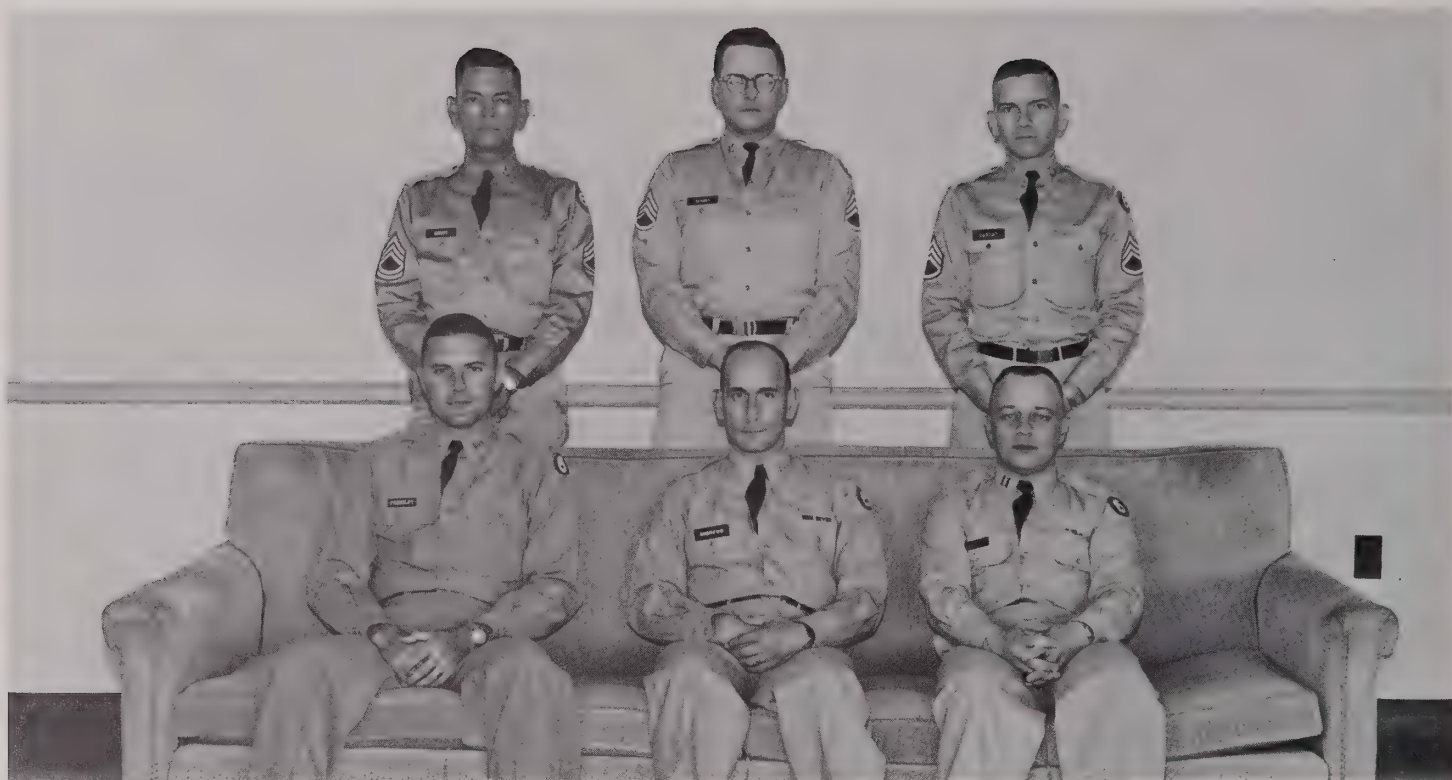
MICHAEL V. KRENITSKY, DIRECTOR.



## LIBRARY

The library of the University contains approximately 80,000 volumes, including bound periodical and serial publications. It is also a depository for the documents of the United States government, the State of Michigan, and various other government, scientific, and technical organizations, as well as for the maps of the Army Map Service Collection. This fall ground will be broken for a new building to house the library. This building, to cost approximately two million dollars, will be located immediately east of the Union building.





*SEATED:* Capt. Pressley, Capt. Andrews, Capt. Brylla. *STANDING:* Sgt. Emery, Sgt. Zerbst, S/Sgt. Sanday.

## ARMY R.O.T.C.



LT. COL. C. S. WAGNER





*SEATED:* Capt. Miller, Major Chase, Capt. Tillotson. *STANDING:* Sgt. Payne, Sgt. Edson, Sgt. Larson, Sgt. Register.

## AIR FORCE R.O.T.C.



LT. COL. M. B. SEALE





## FORD FORESTRY CENTER

DR. ERIC BOURDO, DIRECTOR.



The Ford Forestry Center is an educational, research and demonstration agency of Michigan Tech. The forest land, the sawmill, and other facilities are used for research in forest management and wood utilization, and for the demonstration of both new and accepted principles and practices in forest production and wood utilization. In addition, the student summer school of the Forestry Department, as well as other forestry field courses, are carried on at the Center.

Ford Forestry Center is located 42 miles south of Houghton and 8 miles south of L'Anse. It contains more than 3,600 acres of land supporting nearly ten million board feet of northern hardwoods and hemlock timber stands, as well as more than ten thousand cords of jack pine, aspen, and paper birch pulpwood stands. Its physical facilities include the village of Alberta, which was built by the late Henry Ford as a model sawmill community.

The village and 1,700 acres of forested land were presented to Michigan Tech by the Ford Motor Company Fund on November 30, 1954. Subsequent gifts of land by the Michigan Department of Conservation now permit the Center to conduct research on most of the northern forest types occurring in the State of Michigan.





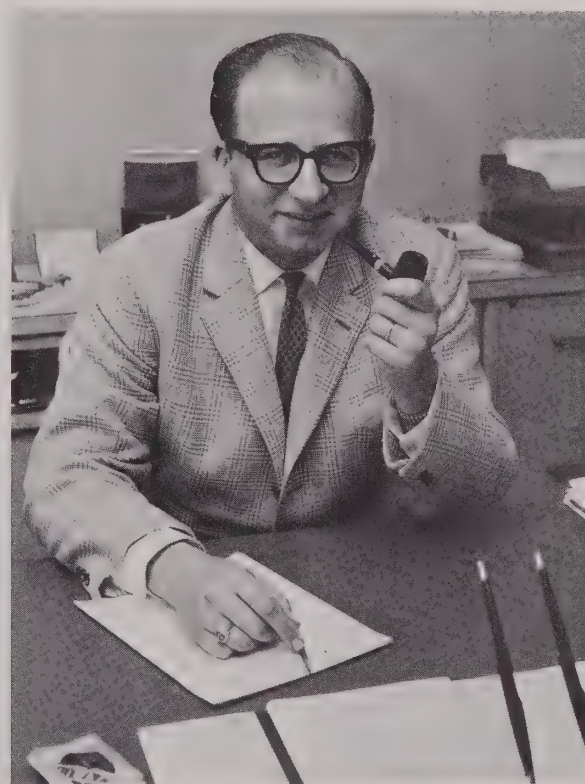
## DIVISION OF CONTINUING EDUCATION

G. RALPH NOBLE, DIRECTOR.

Recognizing that it has responsibilities in education extending beyond the campus to people in all walks of life, the University, through the Division of Continuing Education, makes its teaching, conference, classroom, and laboratory facilities available to the Upper Peninsula and the entire State of Michigan.

The Division of Continuing Education sponsors adult evening classes in a wide variety of subjects, along with programing and operating manpower training courses. It also directs Technical Institute programs leading to the Associate degree. Additional services include a Speakers Bureau, Concert and Lecture Series, surveys, art exhibits, and other cultural and educational programs.

Through the Division of Continuing Education, Michigan Tech serves as the conference center of the western Upper Peninsula, acting as the host to educators, businessmen, and other professional groups.







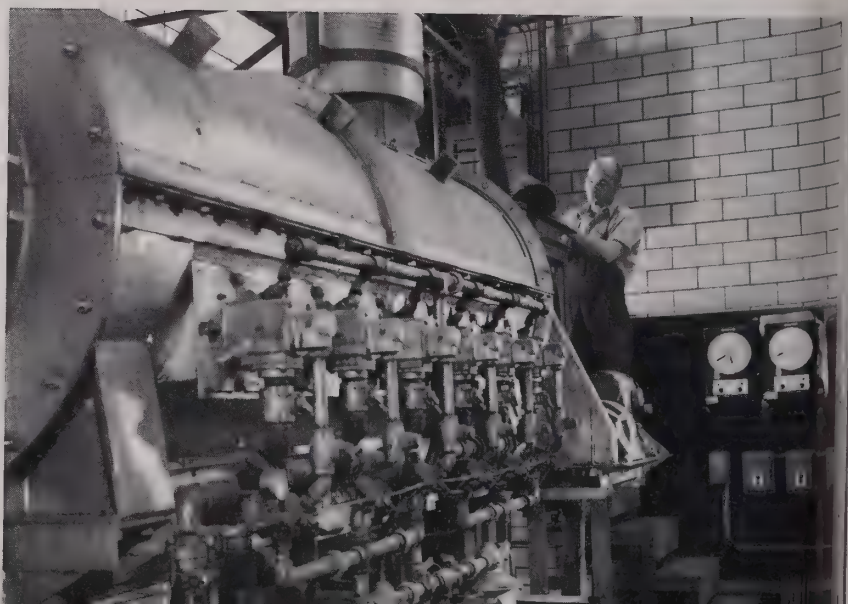
Mineral resources are important to Michigan's economy; in 1964 the value of the mineral products is expected to reach a new high of approximately a half billion dollars. Iron ore, copper, and metallurgical stone are produced in the Upper Peninsula.

Large deposits of low-grade ores remain unexploited because the technology to utilize them has not been developed. Research is needed to realize the full potentialities of these resources and assure a healthy continuing growth for Michigan's mineral industries.

The Institute of Mineral Research is studying the problems of utilizing the mineral resources, and is developing new processes and techniques for making higher grade, more competitive products. Work at the Institute has been concerned mostly with the problems of utilizing low-grade iron ores, with the development of more reliable exploration methods for the native copper ores and better methods of roof control in the mechanized mining of the copper sulphide ores, and with the beneficiation of Michigan gravels for use as aggregate in concrete. The Institute has developed a process for making reduced iron ore pellets of higher grade and better physical structure than conventional oxidized pellets and has developed an electronic instrument for logging drill holes to determine copper content. Progress is being made in beneficiating gravels to make superior aggregate for use in concrete.

## INSTITUTE OF MINERAL RESEARCH

M. EARL VOLIN, DIRECTOR.







## INSTITUTE OF WOOD RESEARCH

DR. H. GARLAND, DIRECTOR.

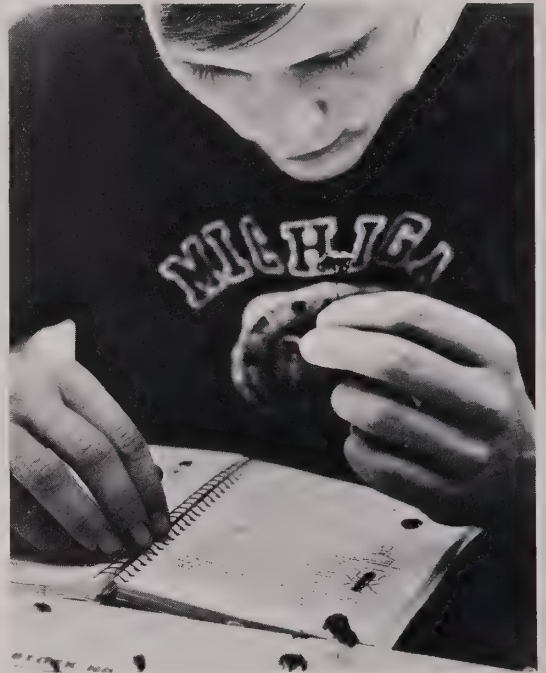


Under the direction of Dr. Hereford Garland, the Institute of Wood Research engages in research on all phases of utilization of forest resources. Included in this research is timber harvesting, particularly the reduction of wood residue into usable chips, the technical and economic factors in fiber board production from wood products, and the utilization of wood in the solid form. For several years research has been conducted on the use of laminated wood in the manufacture of bowling pins. Eighty per cent of the funds for this research agency are provided by the State of Michigan, with the balance coming from sponsored research.





Work is meticulous in a chem lab.

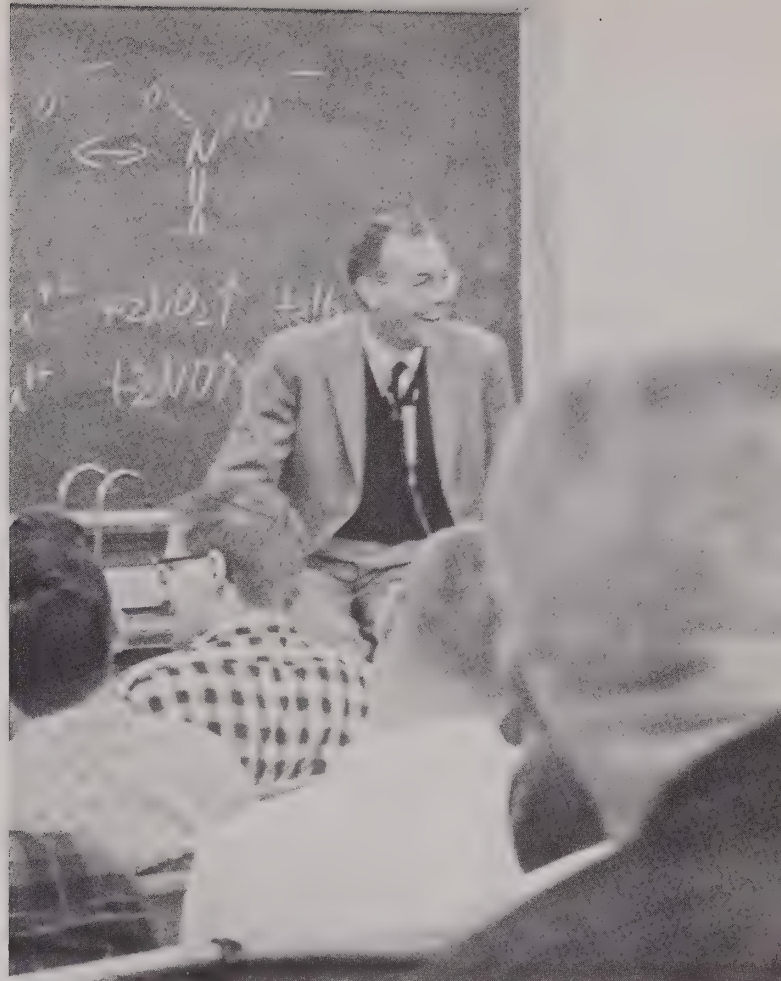


Applying lecture material in the lab isn't always so easy.



A quiet corner of the library, a fine place to study.





Dr. Berry always manages to inject a humorous note into his freshman chem lectures.



Forester seems perplexed about the bird.

Many tedious hours are spent in laboratory work.





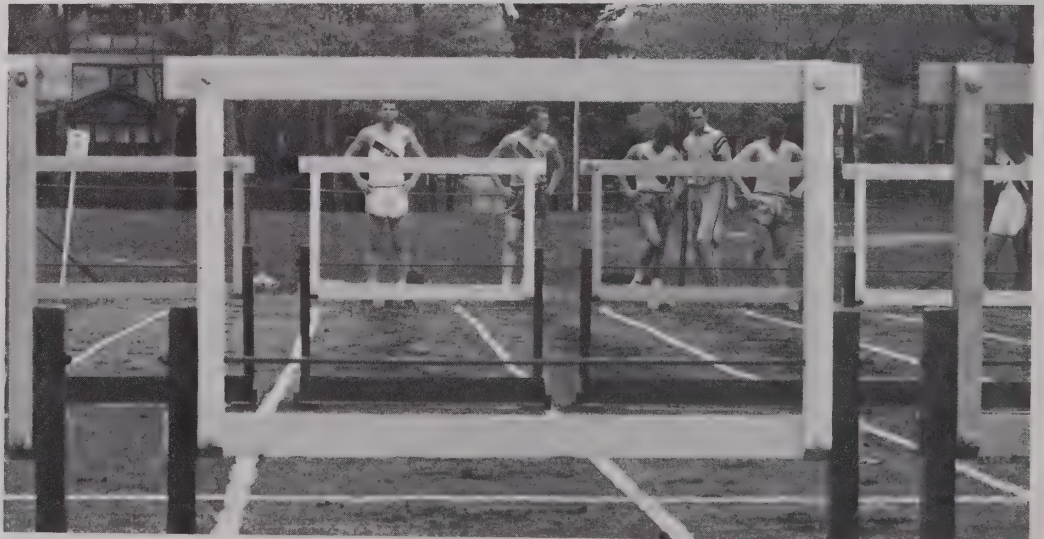
# ATHLETICS

The college athlete is to be commended for his participation in sports. Here is a young man fortified with both the talents of a Spartan and the knowledge of the Greek. He derives self-confidence both on and off the field while providing fast-moving entertainment for his fellow students and other sports-loving fans.

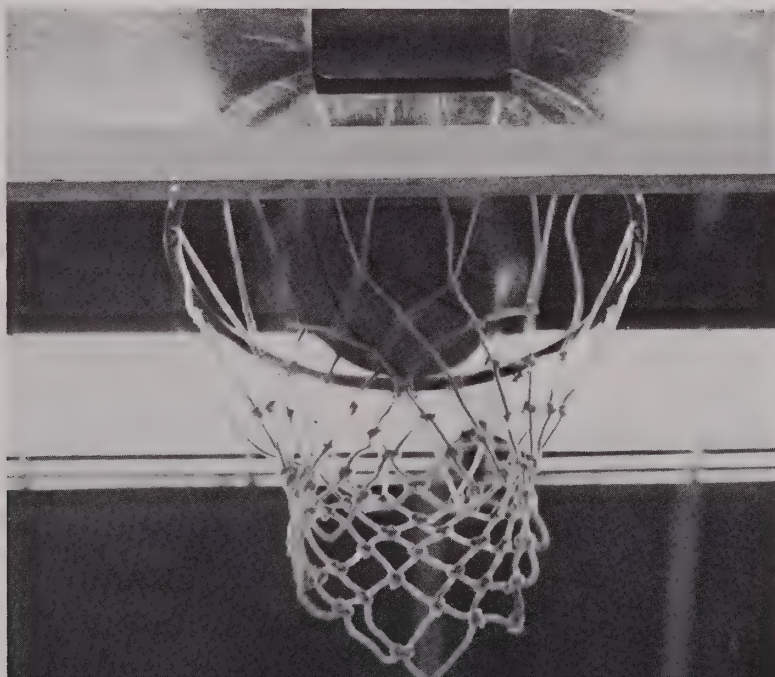
Here at Michigan Tech, the opportunity for athletic expression is unlimited. There are 12 varsity sports, and one of the most extensive intramural programs in the nation. More than 70% of Tech's students participate in athletics in one form or another.

M

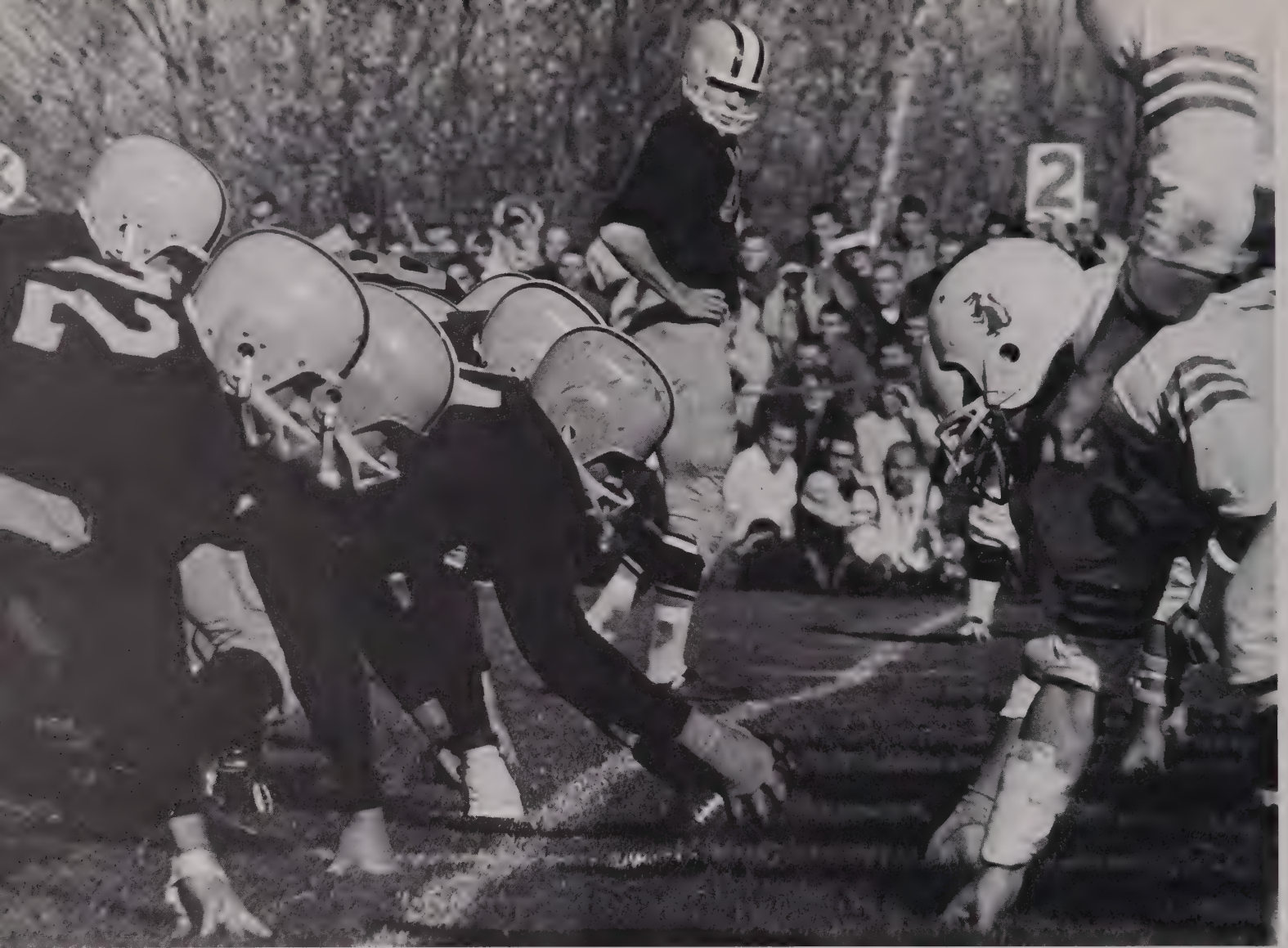
T











## N.I.C. FOOTBALL CHAMPIONS



Doug King is finally stopped by Moorehead after picking up valuable yardage in the Homecoming game, as Coach Bill Lucier looks on from the sidelines.





# FROM LAST TO FIRST IN ONE YEAR



Thompson and Pirner halt a Ferris State back.



Freshman Paul Butkovich displays his aggressive force against U.M.W.



Jim Malloch makes a fine catch of QB Abata's pass.

Tech's dependable defense closes in on a Moorehead fullback.





# FOOTBALL FEVER

## IN HOUGHTON



**MORE AND MORE THE NIC IS STRENGTHENING ITS STATUS. ONE REASON IS HOUGHTON, WHERE THE HUSKIES HAVE DEVELOPED INTO THE SPEAR-HEAD OF THE CONFERENCE**

The Michigan Tech Huskies had one of the finest seasons of their football history, coming from a 0—6—1 season in 1962 to compile a 6—2 tally in 1963 while winning the NIC crown with a 4—1 record.

Balance proved to be the keynote of the young Huskie club along with a tremendous desire to win. This combination magnified the preseason hopes of both the players and the coaches.

Sophomore Doug King was the leading ground gainer with 296 yards in 83 attempts for an average of better than 3.6 yards per carry. The top pass receivers were Dave Thompson and Doug King. Freshman Paul Butkovich earned the scoring title with 38 points in only 3 games. Quarterback Ralph Abata led the Huskies in total offense and proved to be a triple threat to the opponents in running, passing, and punting. Abata compiled the league's best passing percentage in completing 44.5% of his attempts. (Abata was named the year's Most Valuable Player—an award given to him by his teammates.) He also was elected to the Associated Press All State Football Team and Honorable Mention on the Williamson Little All-American Balanced Poll.

Many other awards were presented to members of the Tech team, including such honors as: Don Krejcarek and Ralph Abata, who were named to the Associated Press All State Football Team. Five others received Honorable Mention on this same team. The players included Dennis Burns, Henry Jackson, Roger Hettinga, Ken Naples, and Doug King. Ken Naples was also voted the Fred Baird Defensive Award by his teammates.

Among the football honors the team received were scholastic honors proving that the Huskies excel not only in football, but academically as well. Don Krejcarek, center, was named to the 1963 small college All American Academic Team with two others gaining Honorable Mention; Jim Zukowski, end, and Ron Matestic, fullback.

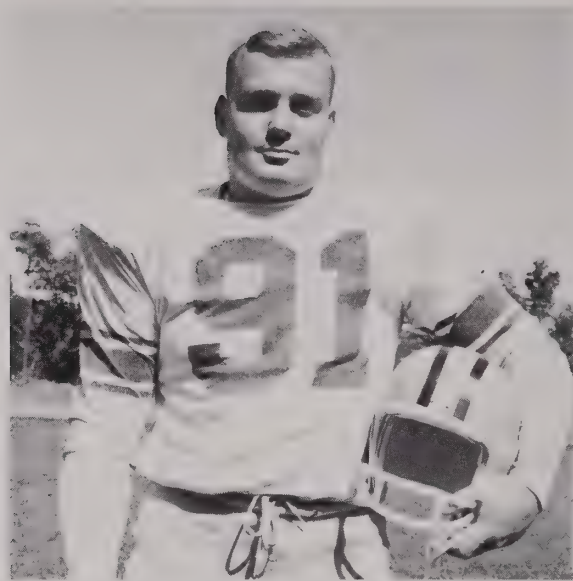








Ralph Abata  
Quarterback



Dennis Burns  
Guard

SIX HUSKIES  
COMPRISE NUCLEUS OF

## NIC ALL-CONFERENCE TEAM



Roger Hettinga  
Tackle



Don Krejcarek  
Center



Doug King  
Halfback



Ken Naples  
Linebacker

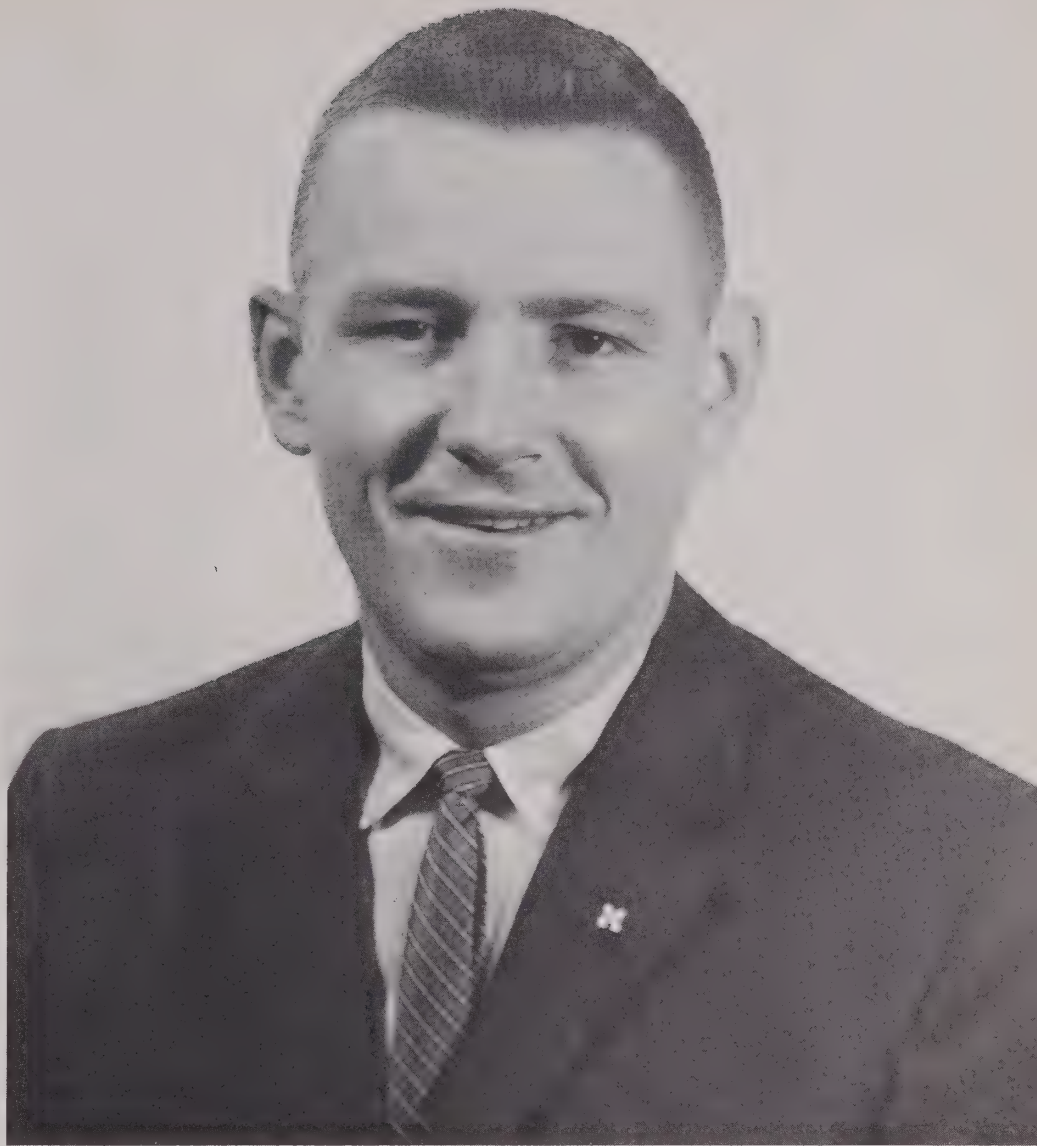


# MICHIGAN'S COACH OF THE YEAR

With a previous season's record of only one tie, Bill Lucier took the post of Head Football Coach at Michigan Tech. He began immediately to work diligently on and off the "battle grounds" and molded a precision instrument that later in the year became known as the Northern Intercollegiate Conference Champions.

The sports world recognized Coach Lucier in post-season honors by selecting him to be the recipient of many coveted awards. Coach Lucier was designated as Michigan's small college "Coach of the Year," 3rd candidate of District V—which comprises all of the Great Lakes region—for "Small College Coach of the Year" by the American Football Association, and U.P.I. "Coach of the Year" in the NIC in a poll of NIC coaches were Lucier received all but one vote—his own.

If Coach Lucier's first year as Head Football Coach is a sample of things to come, the NIC Championship isn't going to be "out of town" very many of the future football seasons.



Head Football Coach William Lucier



Bill and one of his men discuss a play during a break in the game.

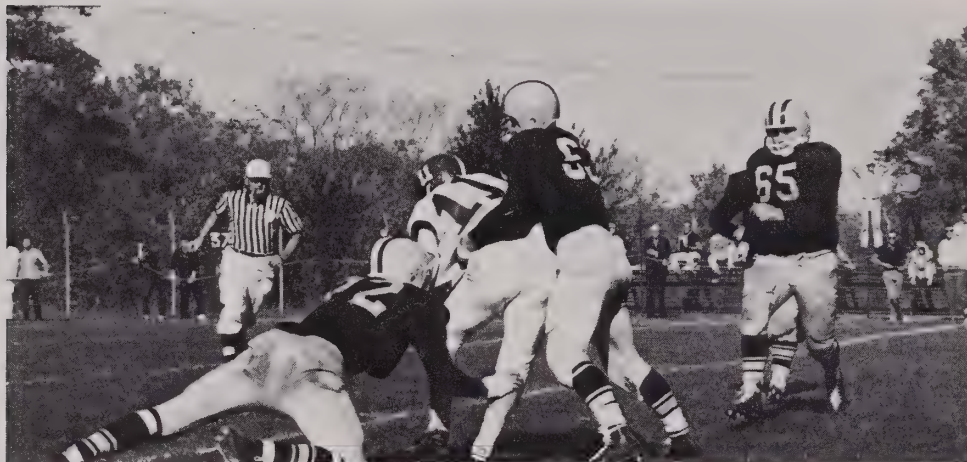


Left: Coach Lucier confers with co-captains Ken Chermak and Gene Belmore.

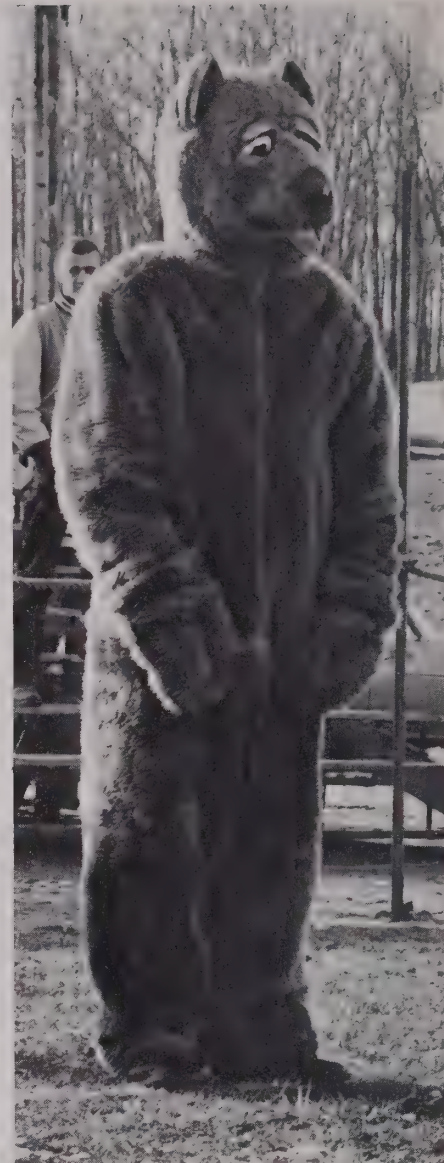




Doug King signals a Huskie touchdown as Dan Van Abel looks on expectantly.



Ferris State (back) is halted by Carl Pirner and Ron Rusing as Henry Jackson rushes to assist.



The Michigan Tech Huskie keeps a close eye on all the action.



Ralph Abata gets off another successful pass during the Moorehead game.



The cheerleaders pause from their duties during a tense moment.





*FIRST ROW*, left: D. Burns, R. Hettinga, R. Abata, co-captain K. Chermak, co-captain G. Belmore, H. Jackson, D. Euers, R. Matestic, and G. Riutta. *SECOND ROW*, left: J. Malloch, D. Krejcarek, J. Allen, K. Naples, K. Ulz, C. Pirner, C. Lucchesi, J. Zukowski, M. Marshall, and R. Rusing. *THIRD ROW*: D. Lehman, asst. coach A. Holmes, asst. coach R. Benoit, backfield coach V. Cox, head coach B. Lucier, line coach O. LaJeunesse, athletic director A. J. Bovard, and head manager C. J. Shroll. *FOURTH*

*ROW*: M. Cousino, F. Hall, P. Butkovich, W. Griffin, D. King, J. Tripp, A. Intermill, M. Curtis, E. Caterer, and T. Csmarich. *FIFTH ROW*: J. Cmar, D. Thompson, J. Dishnow, B. Currey, D. Sunberg, M. Russell, P. Whitman, B. Hausser, B. Luhmann, and L. Underwood. *BACK ROW*: F. Hatajack, R. Jones, D. Ghas-tin, M. Messner, B. Wozniak, D. Haddrill, J. Carbine, J. Johnson, D. Pusa, and J. Croze.

## SEASON'S RESULTS

Tech	6	Superior	13
Tech	8	Ferris	7
Tech	16	Winona	14
Tech	6	St. Cloud	7
Tech	21	Mankato	19
Tech	14	Bemidji	13
Tech	23	Moorehead	14
Tech	0	U-Wisc.-Milwaukee	0
NIC 4—1		Overall 6—2	



Van Abel is forced out of bounds after securing an Abata pass.

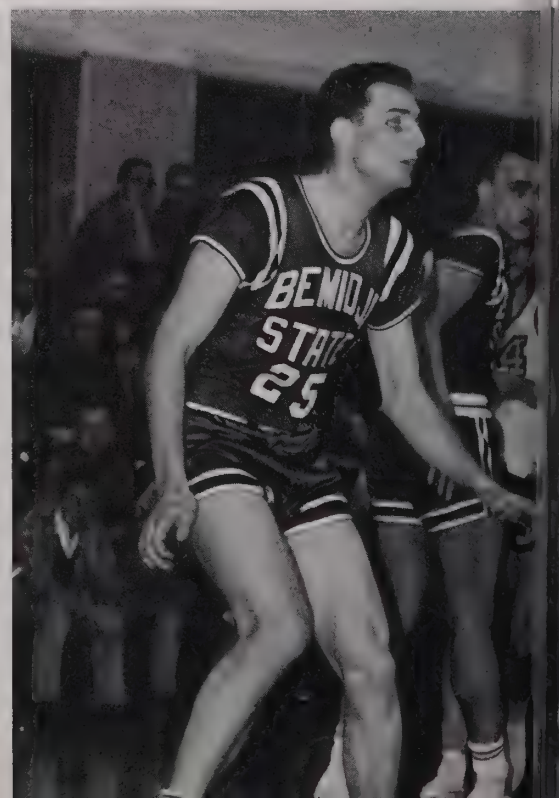


# MICHIGAN TECH BASKETBALL



Sandy Johnson gets two on a layup.

Playmaker Johnson begins a drive shot against Bemidji State as Laurich moves in to cover.







John Olson jumps ball for Tech to begin the Bemidji State game.



Frank Wythe struggles with an opposing player to get the rebound as Larry Laurich awaits to assist.



An exhausted Huskie rests during half-time.





Johnson attempts a shot under the close guard of a St. Cloud player.

Coach Verdie Cox confers with his team prior to game time.



## A YEAR TO REBUILD

Michigan Tech's basketball team nearly reversed its fine season of last year in finishing with a disappointing 4—16 total. Following an opening win against Superior State, the Huskies lost to Oshkosh State. This loss was prophetic of the games to follow. Tech's lack of height, the determining factor of that game, continued to plague them the rest of the season. Repeatedly, Tech's hustle and hard work proved to be insufficient to overcome the size difference. In many games the Huskies matched their opponents until the final period when the difference in height wore them down.

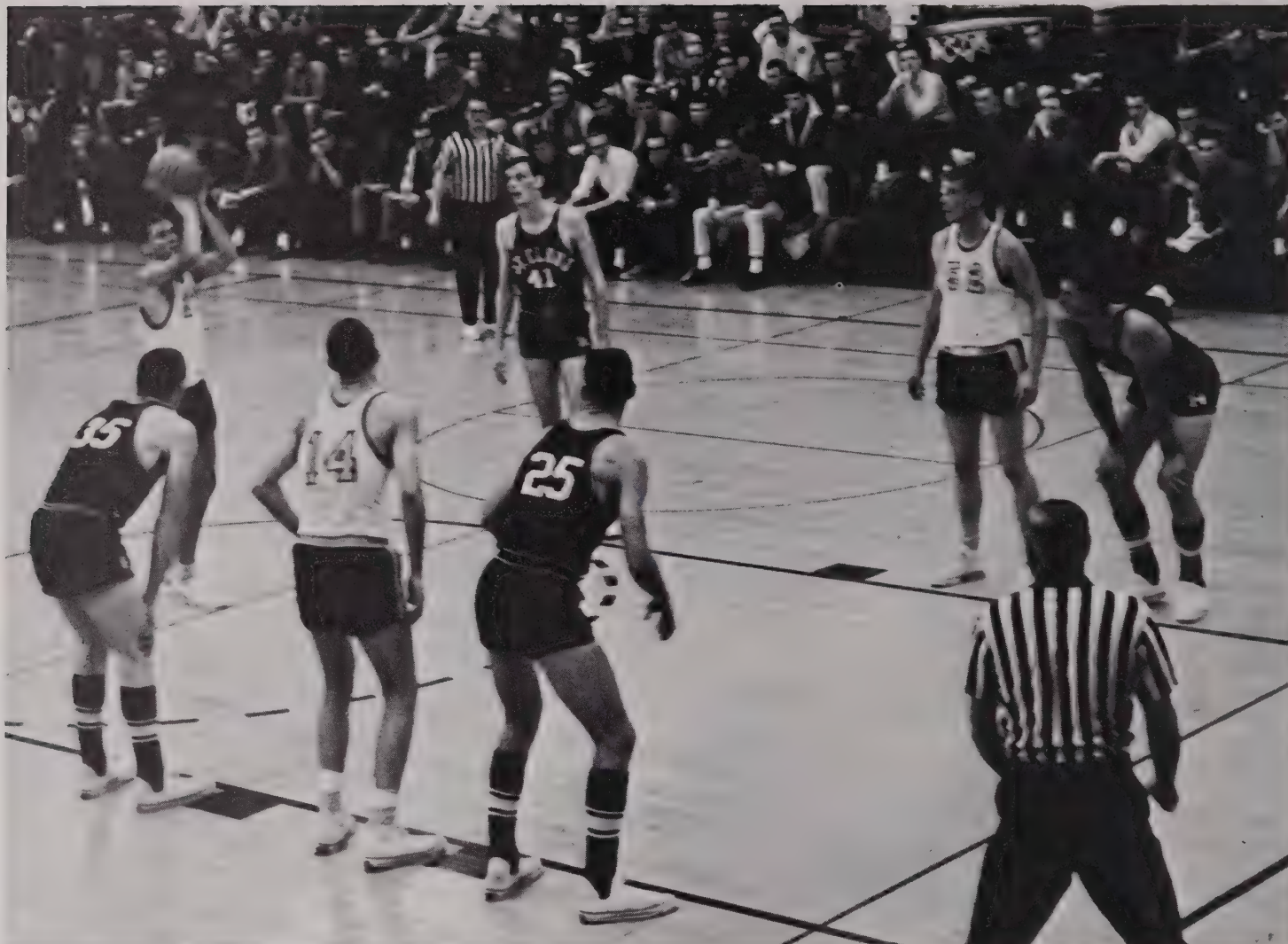
The season did have its brighter moments, however. The highlight of this year's season was Tech's surprising upset of Northern Michigan—a victory which last year's team could not achieve.

Tech's hard-working attack was led this year by Bill Massey and Sandy Johnson. Their dependable performances made them the highest scoring Huskies.

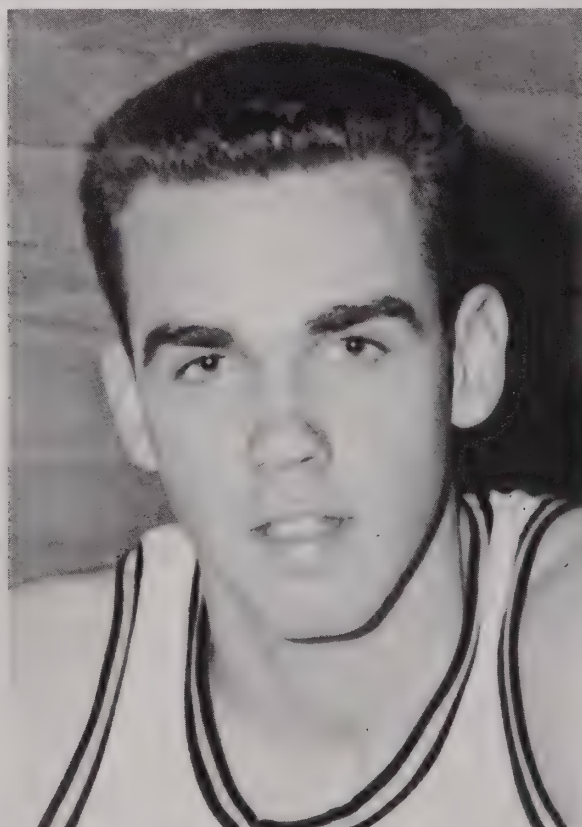
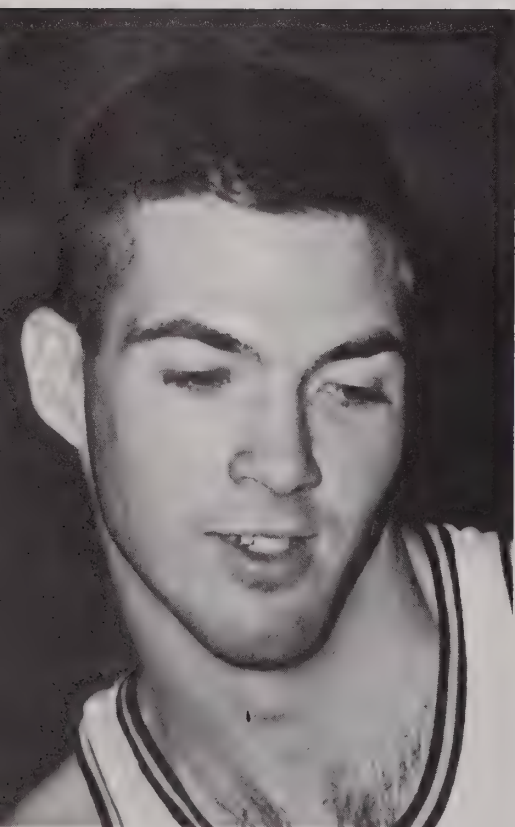








Johnson concentrates on sinking an important foul shot against St. Cloud.



## TECH'S OUTSTANDING TWO

BILL MASSEY, (left) captain and most valuable player of the 1963-64 team, completed his fourth season of varsity competition this year. He ranks second in all-time scoring at Tech. He has also gained NIC second team berths twice in his career.

SANDY JOHNSON gained post season honors by being selected to the NIC second team this year. Sandy has been elected co-captain of next year's team.





FIRST ROW: J. Olson, T. Rozich, B. Massey, S. Johnson, L. Laurich. SECOND ROW: Coach Verdie Cox, M. Greenleaf, J. Tripp, F. Wythe, D. Frantti, Asst. Coach Rex Beloit. THIRD ROW:

F. Hagen, K. Bugge, K. Szeft, S. Johnson, T. Hegland, R. Tucker, R. Wager.

## SEASON'S RESULTS

TECH— 96	Superior State	—85
TECH— 72	Oshkosh State	—80
TECH— 70	*Bemidji State	—87
TECH— 72	*Moorhead State	—89
TECH— 76	*Bemidji State	—91
TECH— 63	*St. Cloud State	—83
TECH— 69	*Mankato State	—86
TECH— 90	Northland College	—77
TECH— 73	Wayne State U.	—75
TECH— 62	Ferris State	—90
TECH— 85	Northern Michigan	—82
TECH— 76	*St. Cloud State	—89
TECH— 80	St. Norbert	—96
TECH—104	Northland	—67
TECH— 68	St. Norbert	—89
TECH— 72	Northern Michigan	—87
TECH— 66	*Mankato State	—89
TECH— 71	*Winona State	—86
TECH— 69	*Winona State	—85
TECH— 63	Moorhead	—77

\*Denotes NIC Games

Season's Total: 4-16



Coach Verdie Cox





## DUEL ON ICE



This good pass is an example of Huskie teamwork.



Huskies face off in the enemy territory during the North Dakota game.



Center George Hill slaps one past U.M.D.'s goalie.





Michigan Tech's Rick Yeo and Gary MacLellan put the pressure on North Dakota.



Draper, Yeo, and Watson fight for control against State.

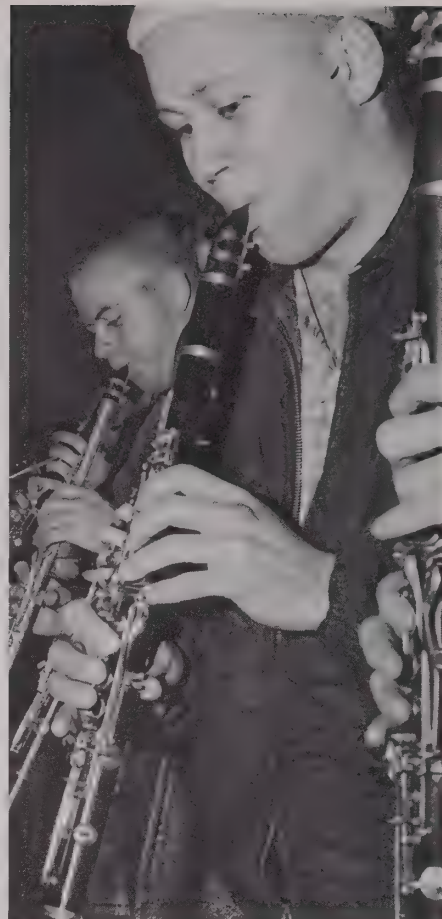


North Dakota freezes the puck.





In front of the U.M.D. net, Al Holm moves in for a close shot.



Lending enthusiastic support at every hockey game is Franz Schubert's pep band.



Sophomore defenseman Pete Leiman tries to stop fast skating Olympic forward.





Michigan gets a sample of Tech's determination.



Hard-skating Huskie tries to break in on a well protected Sioux goalie.



Bumbacco and Yeo team up against U.M.D. as Huskie rooters look on.





## HUSKIES SHOW DETERMINATION

The Hockey Huskies of 1963-64 were hurt before the season began by the ineligibility of four of their big scorers, but battled all season long to gain a Western Collegiate Hockey Association playoff berth against the University of Michigan.

The Huskies didn't meet a league opponent until the 10th and 11th of January when they met Denver University. The Techmen split with Denver and went on to split series with all WCHA foes except Colorado and Michigan State. Coach John MacInnes's squad took two from Michigan State, racking up impressive 7-3 and 11-1 scores and beat Colorado twice in a late season Western trip. The only team to dump the Huskies twice during the regular season was the league leader, the University of Michigan. Tech met the U.S. Olympic squad in a two game encounter for the first games of the season. The Huskies, playing without experience, dropped both games to the Olympians.

Michigan Tech drew Michigan as its first opponent in the WCHA playoffs in a two game total goal series. The Huskies lost a close first game 4-3 in the opener at Ann Arbor but forced Michigan into overtime in the second game before the Wolverines managed to salvage a 5-5 tie and enough goals to win the series.

The Tech pucksters ended the season with a won 14, lost 11, and tied one overall record, and a 9-7 WCHA league mark. Coach MacInnes, over an eight year period at Tech, has now compiled a record of 138 wins, 82 losses, and 11 ties.

Captain George Hill led the squad in scoring with 42 points, the same total he led the Huskies with last year. He had 20 goals and assisted 22 times. Dave Draper was second with 15 goals and 33 points.

### ALL AMERICAN GARY BAUMAN

For the second consecutive year, Gary Bauman has achieved all-American honors.

These, and many other honors, have resulted in Gary being designated by many qualified sports writers as "College Hockey's Mr. Goalie."



Governor George Rommney is escorted by Huskies George Hill and Dave Draper to face off to begin North Dakota game at Winter Carnival.







FIRST ROW, left to right: P. McVittie, G. MacLellan, N. Wimmer, S. Watson, G. Rebellato, G. Hill, A. Patterson, B. Mikesch, B. Pallante, G. Bauman SECOND ROW: T. Bliss (mgr.), D.

Wright, M. Gilson, B. Thompson, F. Dart, A. Holm, R. Heino, D. Draper, Coach J. MacInnes THIRD ROW: J. Pirie, R. Yeo, T. Ryan, D. Chivers, R. McNabb, P. Leiman, J. Bumbacco.

## SEASON'S RESULTS

TECH— 1	U.S. Olympics	—3
TECH— 2	U.S. Olympics	—6
TECH— 3	U. Minn.-Duluth	—2
TECH— 1	U. Minn.-Duluth	—3
TECH— 1	Green Bay Bobcats	—5
TECH— 2	*Denver U.	—1
TECH— 1	*Denver U.	—4
TECH— 5	Port Arthur	—0
TECH— 8	Port Arthur	—1
TECH— 2	*U. of Michigan	—6
TECH— 3	*U. of Michigan	—5
TECH— 3	U. of Minn.-Duluth	—1
TECH— 4	U. of Minn.-Duluth	—2
TECH— 3	*U. of North Dakota	—0
TECH— 2	*U. of North Dakota	—3
TECH— 2	*U. of North Dakota	—1
TECH— 1	*U. of North Dakota	—4
TECH— 7	*Michigan State U.	—3
TECH—11	*Michigan State U.	—1
TECH— 3	*U. of Michigan	—1
TECH— 3	*U. of Michigan	—4
TECH— 4	*Denver U.	—3
TECH— 2	*Colorado College	—0
TECH— 2	*Denver U.	OT —3
TECH— 9	*Colorado College	OT —8

Regular season total 14—11

Tech lost to U. of Michigan 8—9 in WCHA Play-off.



Coach John MacInnes



# SWIMMING

The Michigan Tech swimmers recovered from last year's disappointing season of only one victory in winning ten of nineteen meets this season.

The spirit behind this change came from the influence of Freshman Allan Moore, who, at the end of the season, was selected as "Most Valuable Swimmer" by his teammates. This marks one of the first times a Freshman swimmer has gained such an honor.

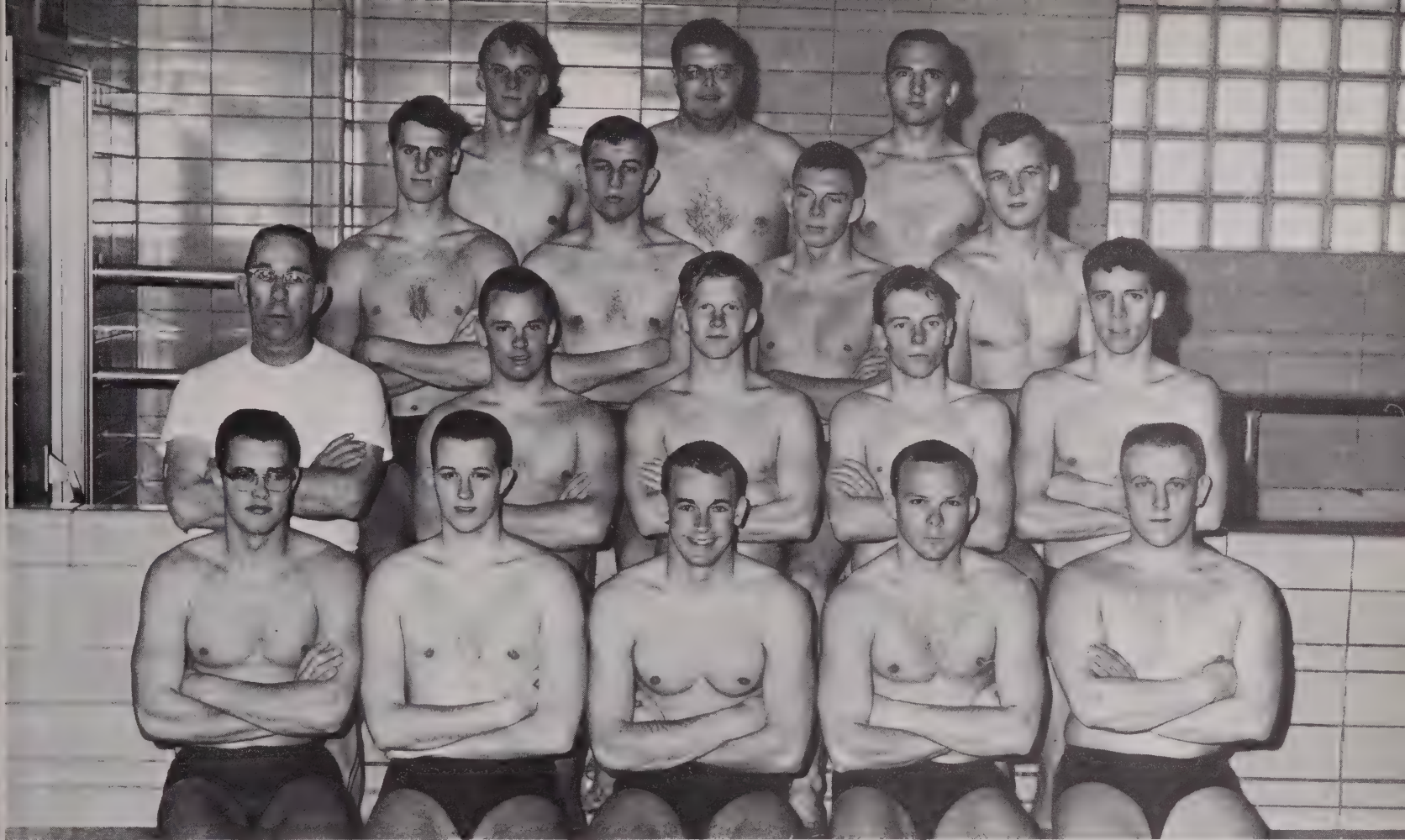


The keynote to a victory: "touch and go."



Fellow Huskies give encouragement to their teammates.





*FIRST ROW:* J. Winebrener, E. Templin, J. Inman (capt.), J. Kellogg, J. Schmidt, *SECOND ROW:* Coach Omer La Jeunesse, D. Anderson, A. Moore, J. Epley, T. Plaston *THIRD ROW:* R.

Gunlach, D. Althouse, N. Caldwell, R. Atherton *FOURTH ROW:* E. Hough, R. Newland, F. Richter.

## SEASON'S RESULTS

Oshkosh Relays—5th place out of 8 teams

Tech—39	U.W.-Milwaukee—56
Tech—25	U.M.-Duluth—70
Tech—43	U.M.-Duluth—83
	Bemidji—42
Tech—56	Northern Michigan—32
Tech—44	Oshkosh State—45
*Tech—59	Northern Michigan—35
Tech—56	Stevens Point—30
Tech—56	Northern Michigan—39

### NIC Meet

Winnona	—156
Tech	— 65
Bemidji	— 50
Mankato	— 19

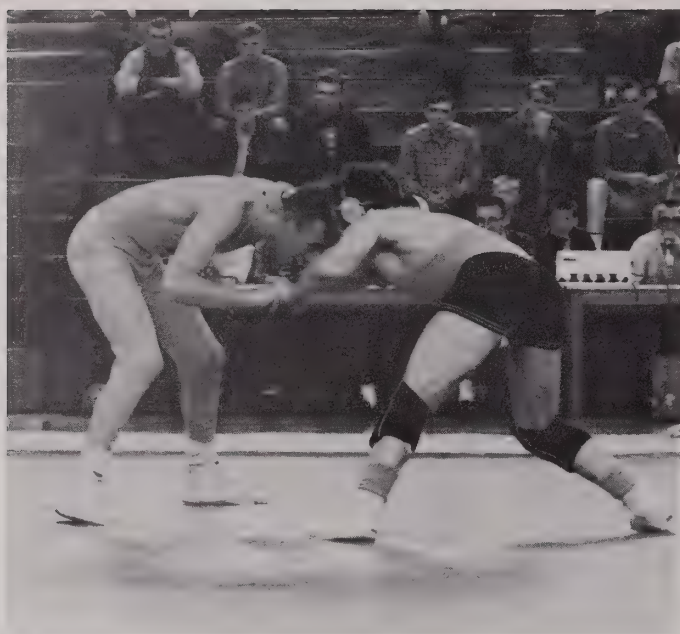
Season's Total: Won 10, Lost 9

\*Held at Oshkosh State

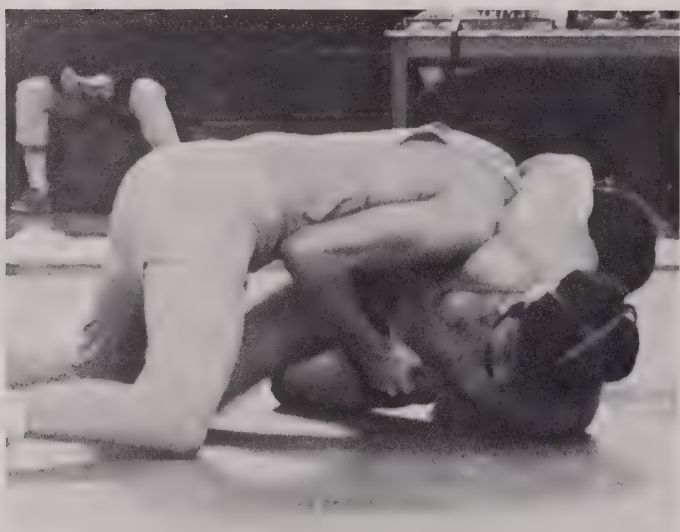


Coach Omer La Jeunesse



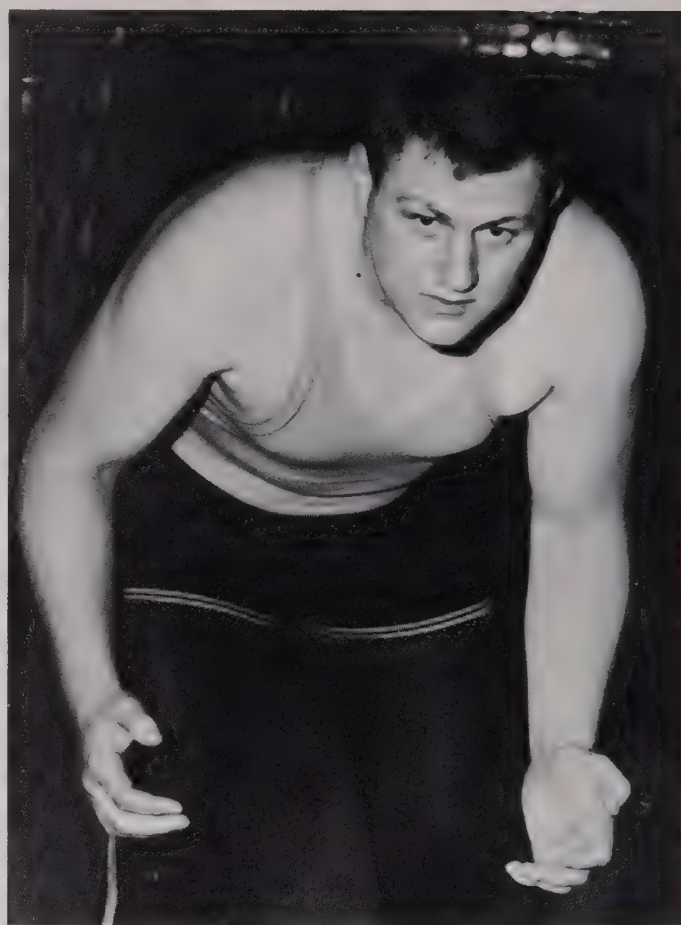


Wrestling is an individual test and a team effort.



A Huskie wrestler tries to release from a dangerous predicament.

The referee rushes in to check for an illegal hold.



## FOUR TIME AWARD WINNER

For the fourth consecutive year heavyweight Roger Hettinga, Rothschild, Wisc., has won the "Dean Frank Kerekes Outstanding Wrestler Award." This award is presented annually to the wrestler compiling the highest number of team points.

## A MAN'S SPORT

The Michigan Tech Wrestling Team concluded the season with a respectable 4—7 record. Coach Al Holmes considered it a successful season, taking into account the inexperience of the Tech squad.

The Huskie grapplers scored seven points in the conference meet with Roger Hettinga taking a third place and Wally Hines taking a fourth place.

Roger Hettinga also won the Dean Kerekes Wrestling Award with thirty-three points. Baily Jones closely followed Hettinga with twenty-seven points.





*FIRST ROW:* D. Kriebel, D. Gray, R. Bonde, B. Tripp, W. Hines, J. Delikoski, J. Leonard, D. Weill, *SECOND ROW:* B. Thomas, B. Jones, L. Kuntz, J. Lowell, W. Vasilaukas, R. Kent, R. Seidler

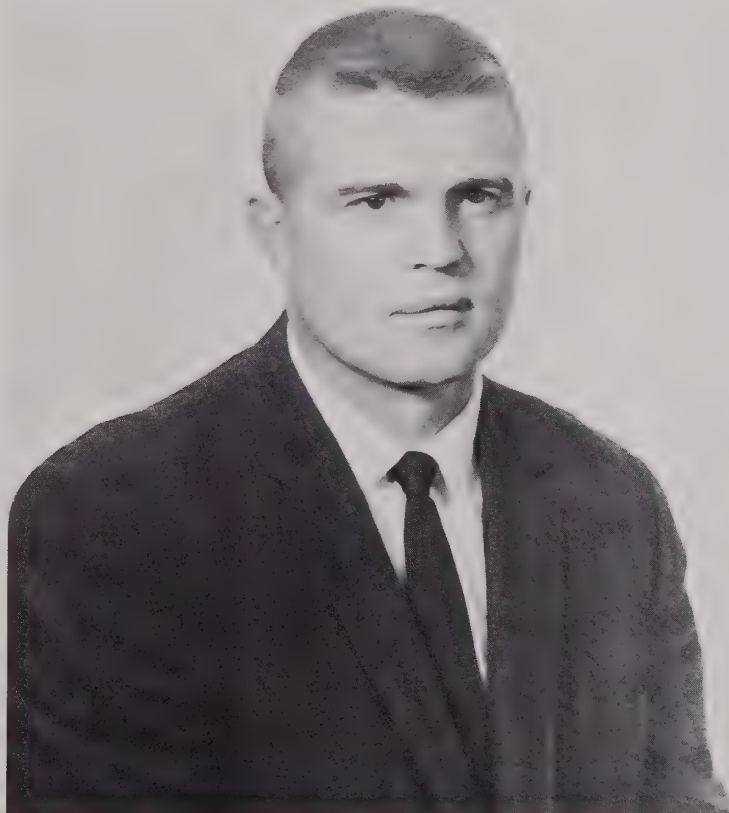
*THIRD ROW:* S. Hutson (mgr.), D. Murnan, M. Cramburg, D. Mathews, R. Hettinga, R. Boes, J. Johnson, D. Thomas, Coach Al Holmes.

## SEASON'S RESULTS

Tech— 3	*Bemidj State—26
Tech—29	Hamline U.—26
Tech—29	Bethel College—8
Tech— 8	*Winona State—25
Tech— 3	Superior State—30
Tech— 0	*Moorhead State—37
Tech—16	U. Minn.-Morris—14
Tech— 3	*St. Cloud State—35
Tech—21	Eau Claire—35
Tech— 0	*Mankato State—28
Tech—10	Oshkosh State—17

\* Northern Intercollegiate Conference games

Season Record: Won 4 Lost 7



Coach Al Holmes



# SKIING

Michigan Tech's Ski Team won recognition for the University by securing four trophies this year. Coach Fred Lonsdorf's Alpine Team won the Tri-State Alpine, Tech-Northern Dual Alpine, and Wisconsin Hooper Alpine meets. The Cross-Country Team took the CISA Four-Event Championship, and dominated the USSA Central Division Cross-Country Meet.

This year's top performer was Oliver Hannula, who won every event in which he participated. Oliver was recognized by his coach as one of the hardest-working athletes ever to represent our school on skis. During his college career at Tech, Oliver has won nine varsity letters.



Contestants line up for the start of the downhill slalom.

Downhill slalom: a test of precision and speed.

Quick turns demand agility from the skier.







*FRONT ROW:* (Cross-Country Team): M. Healy, O. Hannula, C. Vizanko, V. Lapinoja (capt.), A. Kampe, R. Felzer, J. Dunk-

*er. BACK ROW:* (Alpine Team): Coach Fred Lonsdorf, J. Slattery, P. Davis, D. Johnson, N. McLean, B. Turner, P. Garland.



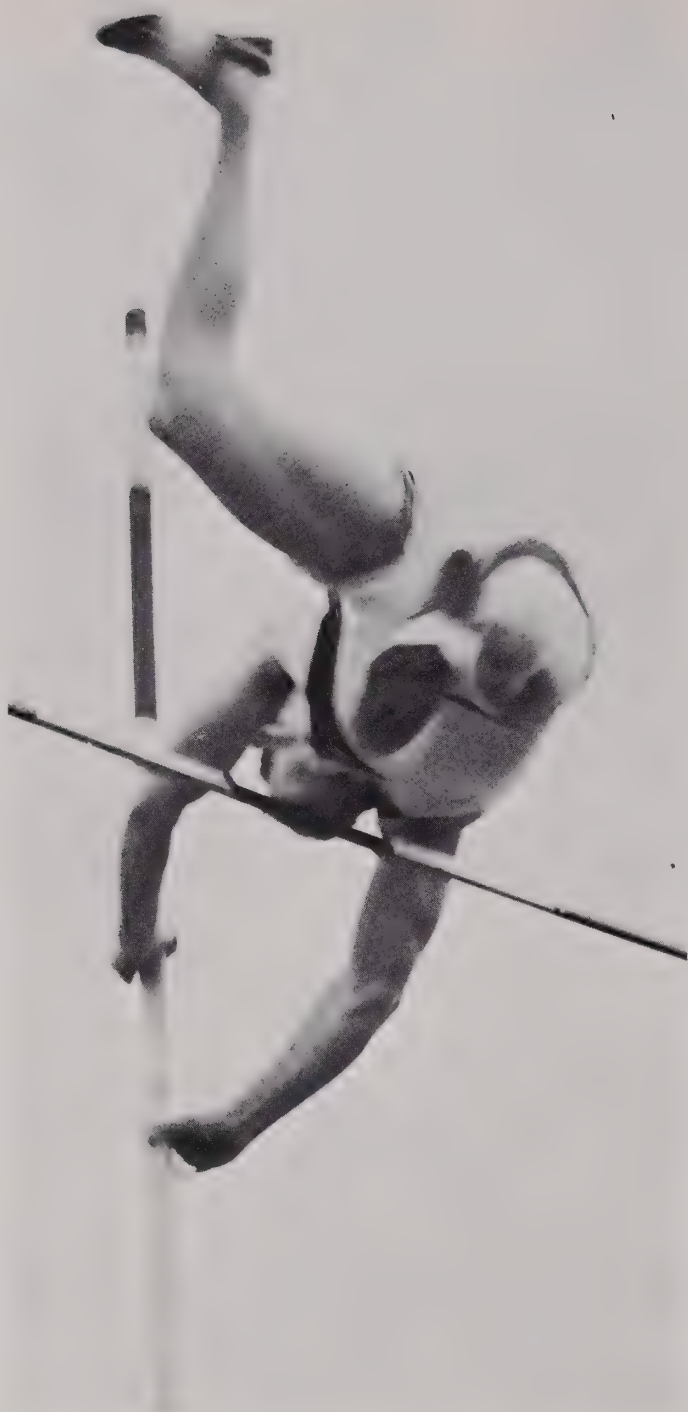
Skier moves through starting gate.



Coach Fred Lonsdorf



# MICHIGAN TECH TRACK



High flying Huskie strains in order to clear the bar.



Strength is shown by determined trackman Barry Gay in discus throwing event.







## HIGH-STEPPING CINDERMEN

Coach Rex Benoit deserves credit for the strong track team he mustered for the 1964 track season. With such potential as strong-armed Barry Gray, hurdler Larry Laurich, and determined Tom Ross, coach Benoit molded his team into a strong unit that put forth an outstanding effort at every track meet in which the Huskies participated.

On the books the Huskies recorded a second and a third place position in the two triangular meets, a loss in a dual meet at Oshkosh, and a third place in the NIC meet. The highlight of the season came on home cinders when the Huskies captured a first place in the Michigan Tech Relays.

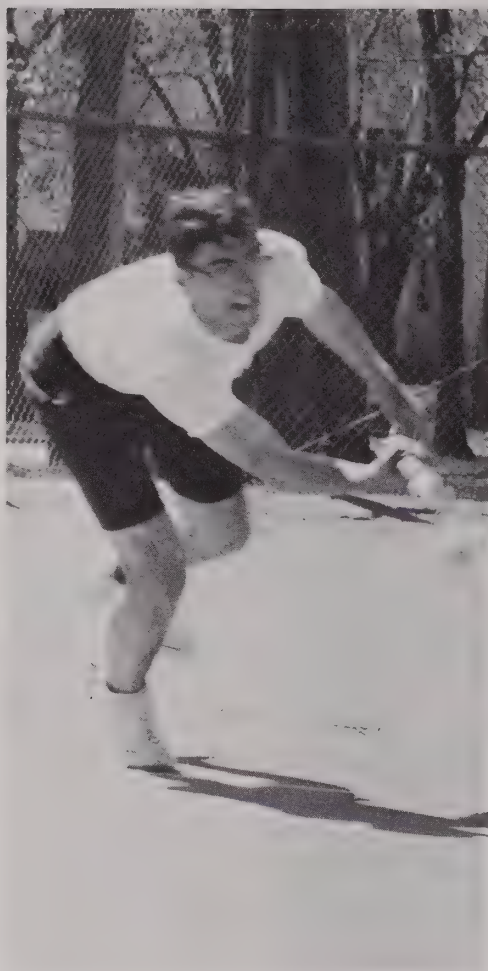
*FRONT ROW:* R. Ball, F. Hagen, G. Simmons, J. Balsiger, T. Ross, T. Stewart, B. Gay, T. Weldum, B. Wozniak. *BACK ROW:* R. Franz (mgr.), M. Healy, L. Underwood, C. Brouseau, B. Volker, L. Laurich, G. Betcher, O. Hannula, D. Patrick, K. Chandler (mgr.), Coach Rex Benoit.



Coach Rex Benoit







## TENNIS

Tech's netters, hampered by bad weather, lack of practice, and an injury to team captain Louie Grailer, had a mediocre season this year.

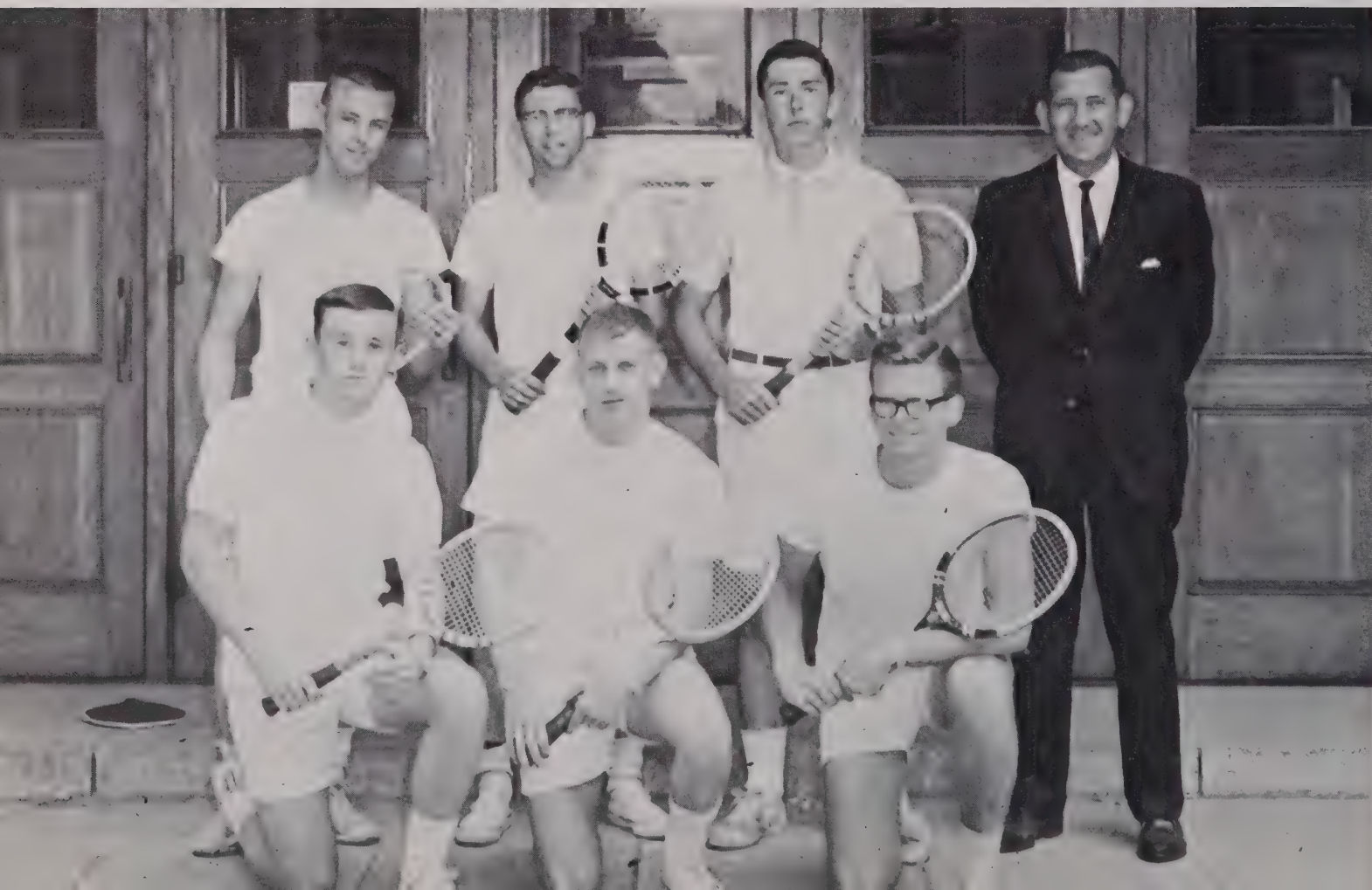
In their first match, Tech was whipped by Northern 7—0, but came back strongly the following weekend losing to Northern 4—3 and beating St. Norbert and Sault Tech at home 6—1 each.

Losing all but one of the first round matches to St. Cloud and Mankato in the NIC Championship at Bemidji, Tech went on to take third place in all first singles and first doubles. Coupled with a nucleus of four returning lettermen, Coach Verdie Cox has many promising freshmen in sight, and thus, is optimistic about next year's season.

A fast and accurate serve is a criteria of a good tennis player.

Senior tennis star Bill Gribble moves up quickly to complete a difficult shot.

*FRONT ROW: D. Wick, L. Grailer, J. Loeber BACK ROW: D. Bystrom, B. Gribble, G. Ptak, Coach Verdie Cox.*







*FIRST ROW:* J. Hansen, D. Confrey, P. Lenz (capt.). *SECOND ROW:* J. Justice, D. Vesely, Coach John MacInnes.

## GOLF

The Michigan Tech golf squad completed a successful season this year with a 6—2—1 record. In compiling this record, Tech beat St. Norbert twice, Lakeland, Northern Michigan, Lawrence, and Sault Tech once. Their two losses came through defeat at the hands of North Dakota and Northland College. In a return match against Northland College, however, Tech secured a tie.

Freshman Dave Confrey tallied the low average of the season with 78.8 strokes. Captain Pete Lenz came in second with an average of 80.3 strokes.

One of the finer techniques of golf is displayed by Dave Vesely in his chip shot.

Far right: A steady hand and a good eye are put to use in sinking this thirty-six inch putt.







*FRONT ROW:* R. Sarkela, D. Dezi, M. Cox, B. Mayer, J. Burnett (capt.), E. Smallwood.  
*BACK ROW:* G. Brazo, J. Nicholls, D. Filley, D. Nancarrow, D. Mahy, J. Madl, Coach MSgt. Larson.

## RIFLE TEAM



Miss Jilann Brunett

Captain Jilann Brunett is claimed by the University to be one of the finest woman rifle shooters in the nation.

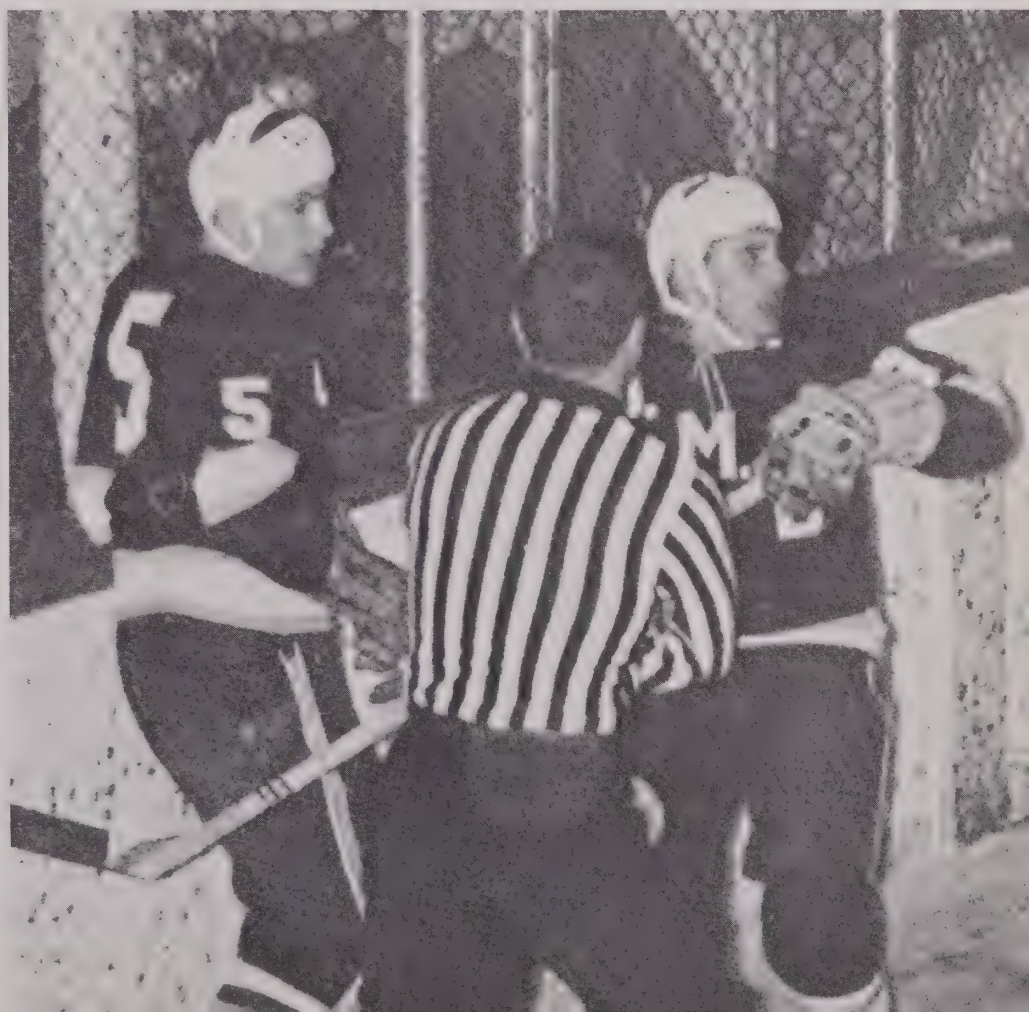
This year she added to her many honors by winning the U.P. Rifle Championship and placing in National Rifle Association competition. Miss Brunett was also chosen the "Outstanding Shooter" of this year's rifle squad.





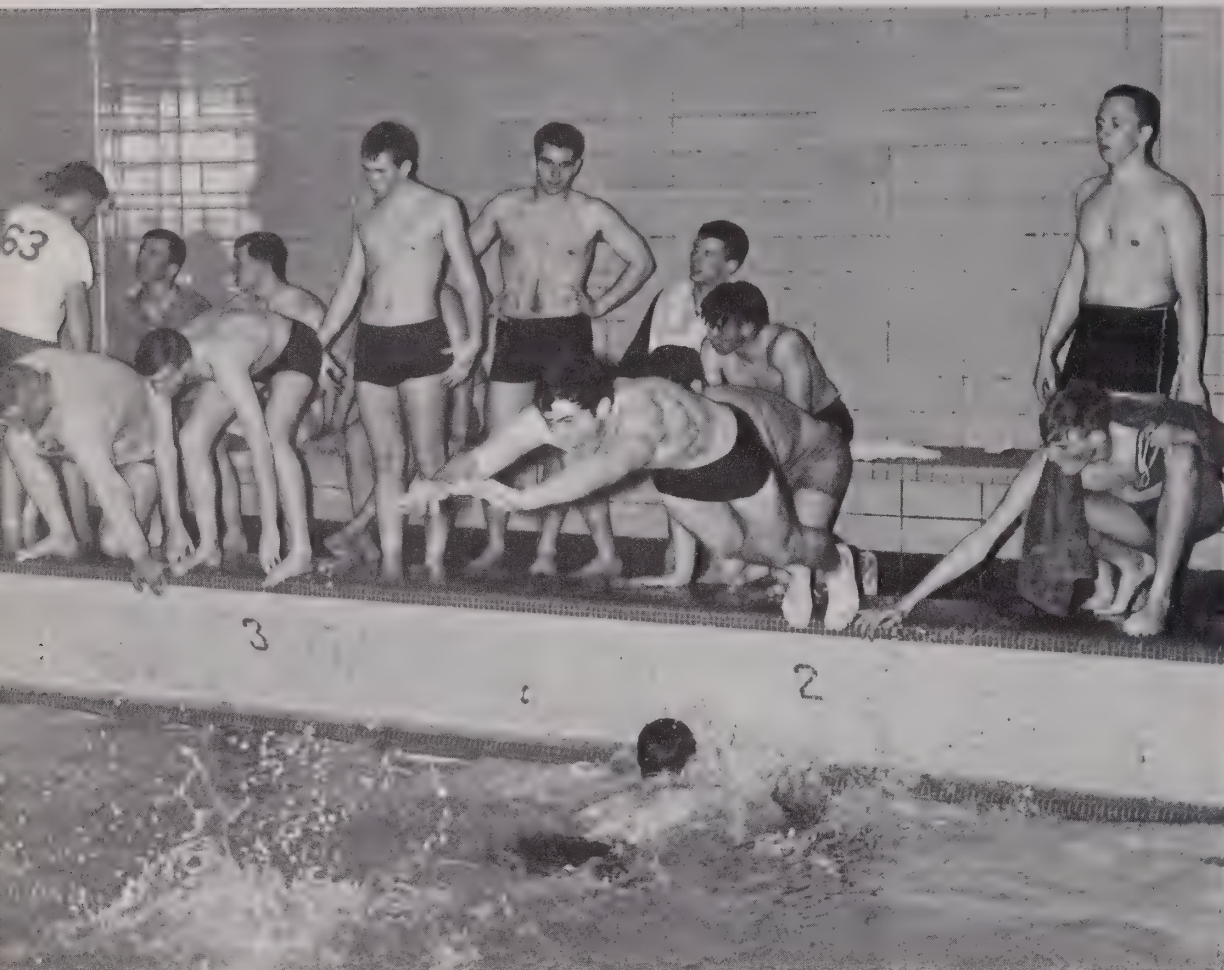
## THE WATCHFUL EYES

and, at times, an assisting hand.





# INTRAMURAL SPORTS



The Intramural swimming championship (above) was decided on a two day basis this year with the KD's taking first place honors.



The grueling intramural skiing contest attracted many highly skilled skiers (below).



Basketball was a major intramural activity during the cold winter months.







Spring term participation in softball was very competitive, (above), as was participation in volleyball during the winter quarter (below).







A good pitcher seemed to be the greatest asset to a team in I.M. softball this Spring.



## KAPPA DELTA PSI CAPTURES OVERALL INTRAMURAL TROPHY

By compiling the most points in intramural competition, and meeting the requirements of participating in the five major sports and at least five minor sports, Kappa Delta Psi, this year, won the prized Overall Intramural Trophy.

The individual trophy winners are listed below.

Tennis .....	Royal Raiders
Horseshoes .....	Kappa Delta Psi
Bowling .....	Rathskeller
Basketball .....	Fabulous Kangaroos
Hockey "Class B" .....	Keystone Playboys
Hockey "Class A" .....	Finns Les Petite Canadians
Skiing .....	Independents
Handball .....	Fabulous Kangaroos

Wrestling .....	Newman Club
	Kappa Delta Psi
Volleyball .....	Fabulous Kangaroos
Table Tennis .....	Gentlemen
Swimming .....	Kappa Delta Psi
Track and Field .....	Foresters
Golf .....	Excello
Archery .....	Wesley Club
Softball .....	Barracks
Weight Lifting .....	Feeble Four



## FINAL INTRAMURAL STANDINGS

Kappa Delta Psi .....	739 points
Sigma Rho .....	634 points
Theta Tau .....	623 points
Delta Sigma Phi .....	592 points
Foresters .....	576 points
Independents .....	530 points
Phi Kappa Tau .....	517 points
A.I.M.E. ....	513 points
Snow House—Squid .....	434 points

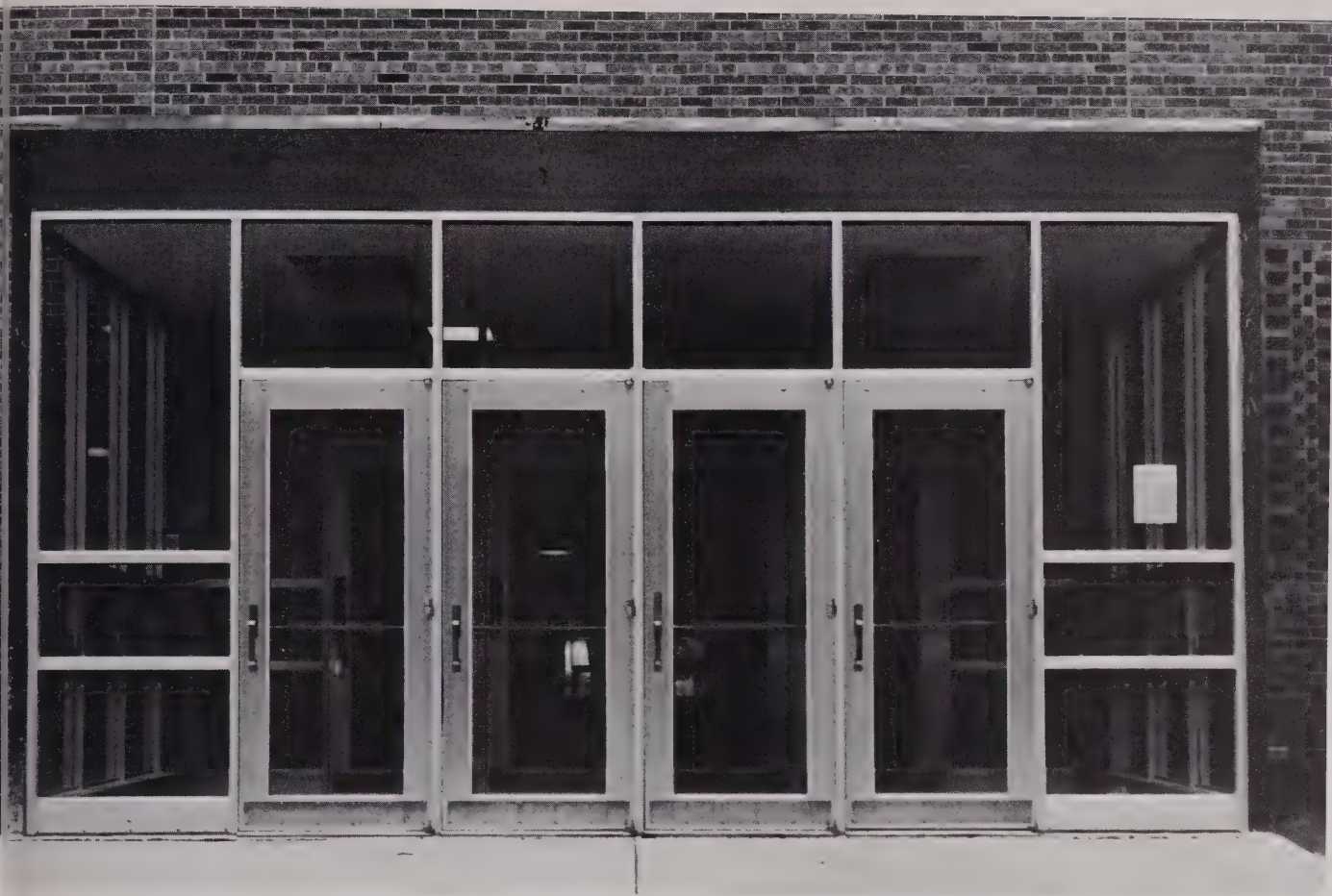




FISHER HALL,  
TECH'S NEW MATH-  
PHYSICS BUILDING  
NEARS COMPLETION











Mr. Frank Harwood, Director of Self Liquidating Operations.



Mr. Paul Sullivan, Manager of the Memorial Union.

## MEMORIAL UNION

Union snack bar, favorite between-class spot.







The weekly A.P.O. mixer is a welcome break in Thursday night's routine.

## CENTER OF CAMPUS ACTIVITIES

Women always find it to be a pleasure to dance with Fred Hall.



Mary Lee at the switchboard.







QUEEN KATHY OLSON

## MILITARY BALL

Saturday, May ninth at nine o'clock in the evening, Wadsworth Hall cafeteria was the scene of "Mediterranean Cruise"—the theme of this year's Military Ball.

Decorations were in the form of different phases of a global trip, represented by murals displayed on the walls. Refreshments were served in the atmosphere of a Paris sidewalk cafe.

The couples attending this gala event, danced to the music of the "Northern Michigan University Jazz Band"—also known as "The Big Soul Band." A feature of the group was trumpet player Jim Boggetto, who previously had played with the famous "Les Elgart Band."

Beauty was prevalent in Queen Kathy Olson and her court comprised of Doreen Yost, Susan Donaldson, Caroline Guili, Maria Mustonen, Sandy Wiinkka, Christine Rogers, and Mary Bovee.

One can safely say, the good ship ROTC had a successful cruise.



To the music of the "Big Soul Band" . . .





... they danced until midnight.



Would you like another refreshment?

Kathy receives her crown from Colonel Seale.







They danced the evenings away.

## THE GREEKS



Typical Saturday night scene.



A home away from home.

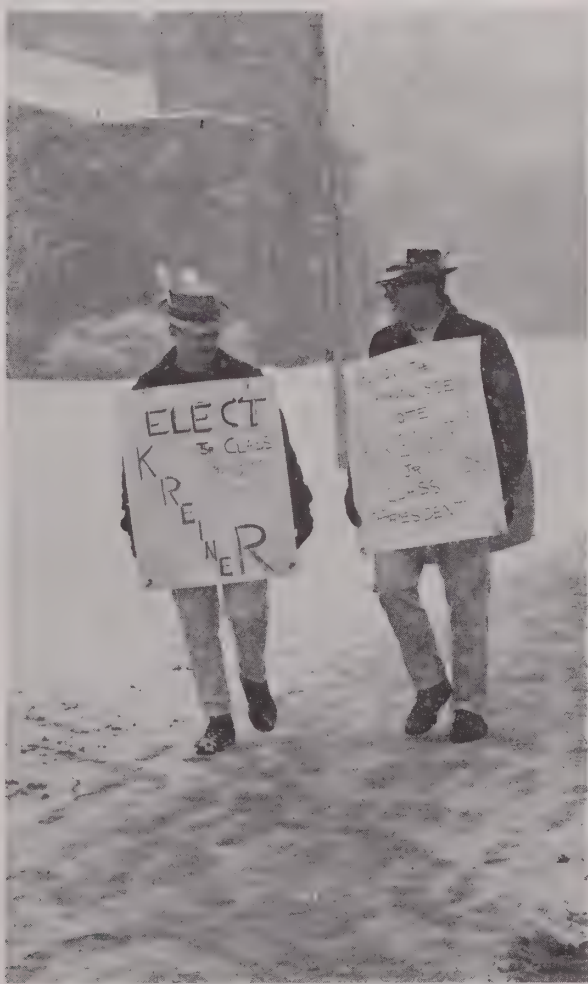




Leaning into the turn.



Hell-week banquet night.



The campaign must go on.



A sign of friendship.





*TOP ROW*, Left to Right: Dale Van Wulfen, Jim Komula, Larry Kremer, Paul Talvansarri, Ted Reuschel, Tom Korpi, Bob Holben, John Koskela, Bill Bassett, Tom Braun, Herb Munk, Ed Riske. *MIDDLE ROW*: Ken Pedde, Jim Wendorff, Ed Clark,

Ed Simonen, Jim Bregi, Dick Green, Lance Dyar. *FRONT ROW*: Gerry Benedict, Dick Benz, John Korhonen, Walter Schroeder, Bill Vaskauskas, Terry Braun.

President John Korhonen



## BETA SIGMA PSI

Originally formed in April of 1962 as a local fraternity, Alpha Zeta Chi was granted a national charter to Beta Sigma Psi on October 6, 1962.

Beta Sigma Psi's goals are to assist in the development of highly respected, well-adjusted, informed, socially acceptable gentlemen. This is brought about by attainment of high scholastic standing and emphasis on a sterling code of moral and ethical values. These goals are held together with the strong bond of fraternal brotherhood.





Left to right: *ROW 1*: G. Simmons, W. Todd, J. Pack, W. Bath, R. Carpenedo; *ROW 2*: J. Sutherland, R. Holtz, T. Prusak, J. McCarthy, Pres.; M. Teneyck, L. Merritt, W. Fournier; *ROW 3*:

C. Hayes, D. Tripp, K. Larson, L. May, M. Bleum, R. Hammer; *ROW 4*: E. Lauritzen, W. Weckler, D. Wick, J. Rowe, R. Sloat, D. Welth.

President Mike McCarthy

## SIGMA PHI EPSILON

The newest addition to the Michigan Tech Greeks is the Michigan Tech Colony of Sigma Phi Epsilon Fraternity.

Originally formed on May 26, 1963, the Colony is going through its initial growth period before receiving its Charter from the Grand Chapter.

Nationally, Sigma Phi Epsilon ranks second in total number of chapters and eighth in total membership. The goals of Sigma Phi Epsilon are to inspire higher academic achievement, and to improve the social, cultural, and moral aspects of its members' lives through a common bond of brotherhood.



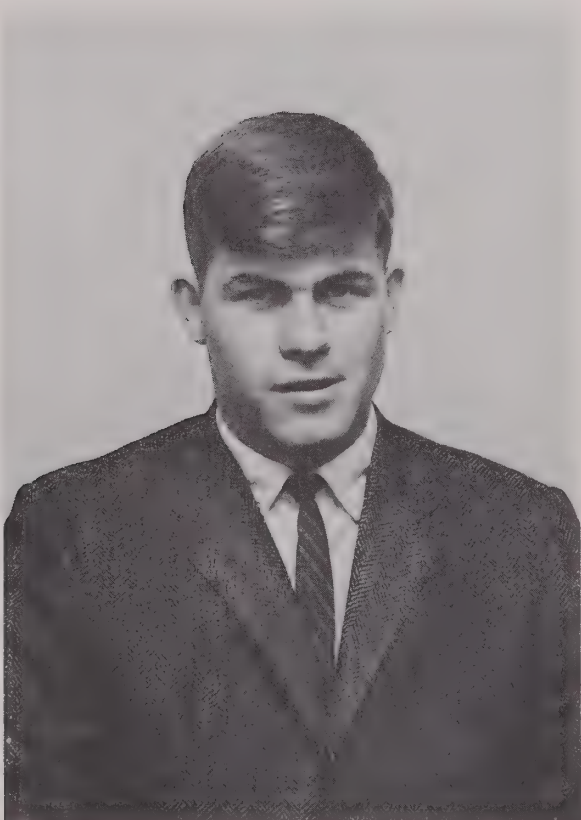




Left to right: *ROW 1*: R. Cummings, W. McQueen, J. McCombs, G. Stone; *ROW 2*: M. Myette, J. Madl, M. Fehninger, G. Kanner, D. Miller, B. Christy, D. Russell, D. Bornes, R. Urbaniak; *ROW 3*: L. Karry, J. Kosinski, B. Greene, D. Weller, R. Gerlock, D. Pat-

rick, D. Curry, L. Martz; *ROW 4*: D. Carlson, M. Curtis, C. Weber, J. Baker, F. Smith, J. Schopf, B. Jones, L. Laurich, G. Weatherson, D. Cordy, S. Shriner, J. Leggett, W. Cebolak, R. Wines.

President Burris Smith



## DELTA SIGMA PHI

The Beta Pi Chapter of Delta Sigma Phi was chartered at Michigan Tech, on March 7, 1948. The National Fraternity was founded at City College of New York in 1899.

Delta Sigma Phi is the fraternity of Engineered Leadership. This reflects a belief that a well-balanced education is necessary for a full and successful college life. The Fraternity is striving to create a well-rounded fraternal atmosphere on a foundation of scholarship, participation in extra-curricular functions, athletics, and social life.





Ground breaking ceremonies for new Delt Sig house, which will be the first all new fraternity house on the Tech campus.



Left to right: *ROW 1*: G. Hamilton, W. Stafford, D. Peterson, D. Evert, R. Meaky, J. Wolbrink, R. Fisher, J. Brothers, J. Beard; *ROW 2*: M. Bradekamp, C. Sundstrom, J. Runyon, B. Smith, C.

Matrosic, R. Kay, J. Johnson, T. Hruby; *ROW 3*: L. Dubay, L. Gast, T. Sharpe, R. DeGroot, D. Vesely, G. Mellbardis, C. Thom, P. Lenahan, G. Hachmuth, G. Richards, J. Higgins.







Left to right: *ROW 1*: A. Sherman, R. Rusing, J. Graves, R. Sayne;  
*ROW 2*: L. Watts, A. Intermill, J. Pirie, W. Adams, J. Johnson,  
 M. Gilson, R. Miller, R. Thompson; *ROW 3*: T. Kohn, D. Mat-

son, P. Millar, R. Bohnsack, H. Richards, R. Hansen, R. Cam-  
 bensy, T. Moore, J. Little, W. Carlson, W. Colstock, D. Johnson,  
 J. Mallock, J. Nora.

Gerald Hintz, President



## KAPPA DELTA PSI

Founded at Michigan Tech in 1920 by veterans of World War I, the Kappa Delta Psi Fraternity was incorporated in February of 1946.

In the past, the fraternity was instrumental in the establishment of the Inter-Fraternity Association which is the governing body of the fraternities on campus. Through the years, they have shown their prowess in campus activities, a fact that is verified by their collection of trophies.

Through a solid, close-knit group, the K.D.'s plan to continue their success in activities, to promote social life at Michigan Tech and to help provide campus leadership.





The new K.D. house, in a beautiful setting next to the Goodwill Farm.



First Place Overall Winter Carnival trophy is a proud possession of the K.D.'s this year.

Left to right: *ROW 1*: D. Kriebel, R. Biarno, D. Kaminski; *ROW 2*: D. Elliot, J. Allen, R. Karas, G. Hintz, Pres., D. Hoffman, D. Kaminski, D. Evers, G. Brockington; *ROW 3*: W. Hamilton, R.

Thompson, J. DeClark, C. Lucessi, R. Hettinga, D. Jeske, J. Olsen, R. Strachan, C. Pirner, K. Chermak, J. Belleau, E. McKernan.







Left to right: ROW 1: W. Tsukamoto, R. Liptak, R. Gardner, D. Hilliard, N. Montgomery, S. Oleksy; ROW 2: R. Peirce, A. Hochstein, T. Shoepel, J. Zukowski, B. McGunegle, T. Morrison, T.

Brodine; ROW 3: F. Sauser, C. Albright, M. Foote, R. Willie, C. Taylor, J. Simmons, B. Malinowski, J. Tripp, J. Sikkara, G. Ptak, J. Guillman, J. Goodreau, G. Humphreys.

Tom Groeneveld, President



## PHI KAPPA TAU

Originally organized on the Tech campus as Mu Kappa Mu in 1957, and affiliated with national Phi Kappa Tau in 1958, the Phi Tau's have grown into one of the leaders in social fraternities on the campus. The goal of the Phi Tau's is to improve the cultural, moral, and social facets of its members in order to provide them with a well balanced education and a strong bond of brotherhood. A well rounded social life, participation in extra-curricular activities, and a complete and active intramural program provides the opportunity for all members to participate in the activities of his choice, while keeping scholarship in mind as being the primary reason for being in college.





The Phi Tau's residence in Hancock.

Left to right: *ROW 1*: J. Jablonski, D. Yoder, D. Elgholz, P. Fritz, M. Oldford, T. Verville; *ROW 2*: T. Groeneveld, W. Camilli, J. Young, B. Szepeig, A. Perrie, D. Krienen, D. Truax, B.

Osten; *ROW 3*: P. O'Hagen, J. Loeber, K. Szeft, R. Likus, R. Kabanek, D. Moats, D. Dail, A. Taylor, J. Cline, J. Sigwart.







*SEATED*, left to right: W. Hines, W. Clogg, R. Tripp, E. Watkins, K. Calder, J. Hermann, R. Prime, Dr. J. Spain, E. Yock. *STANDING*, M. Young, W. Krueger, D. Kochis, J. Siegler, B. Cottenden,

W. Henry, P. Harms, N. McLean, L. Lyons, W. Koltak, R. Klemmett, E. Spear, J. Antonnen.

Archon Ed Watkins



## SIGMA RHO

Sigma Rho Fraternity was founded on Michigan Tech campus in 1894 and was chartered by the state of Michigan in April of 1896. It was one of the first professional fraternities in the nation. Of the original four chapters, two are still active; Tech's Alpha chapter is one of these. Sigma Rho is now a social fraternity.

The purpose of the fraternity is to develop a true fraternal spirit among its members, thus providing everlasting benefits for its members while in college and after graduation.

Sigma Rho sponsors various social activities throughout the years and takes an active part in campus activities. An annual project of the fraternity is the sponsorship of parties for the orphans of the Goodwill Farm.





*SEATED*, left to right: J. Hall, P. Whitten, J. Calder, R. Slocum, H. Hicks, R. Erickson, A. Hicks, W. Torrey, J. Avery. *STANDING*, L. Meyers, H. Hardy, B. Michaels, J. Larsen, A. Klug, J. Shustrom,

A. Sigel, W. Vogt, E. Sauer, D. Marke, A. Stevens, G. Kelly, G. Kuriluk, J. Donovan, K. Koschnitzke.







*FRONT:* J. Larson, Prince, J. Rhodea. *SEATED,* left to right: J. Mitchell, M. Sorenson, W. Kalmar, F. Sherriff, N. Mancinelli, R. Greketis, J. Konwinski, R. Mackintosh, B. Gay. *STANDING:* J.

Kopecky, G. Skoronski, S. Weiss, K. Lutz, J. Biekkola, D. Sloat, R. Skrebant, M. Gustafson, J. Kunz, D. Maki, R. Smith.

President Richard Greketis



## THETA TAU

Theta Tau, a professional engineering fraternity, was established at the University of Minnesota in 1904. Two years later, Beta chapter was founded on the Michigan Tech campus. The purpose of the fraternity is to promote high ethical and professional standards and to foster close fraternal relations among its members.

Through its social contributions, the fraternity tries to make college life more enjoyable and less tedious for its members. Theta Tau members have been active in Winter Carnival activities for many years. Theta Tau also takes an active part in other campus events at Tech.



Mable, the H. & T.'s cook for many years.



Prof. H. Hawn, H. & T. faculty advisor.

*FRONT:* B. Bovee, M. Shea, Prince, J. Stroup. *SEATED,* left to right: F. Richter, B. Trimberger, D. Meyer, K. Kessler, D. Hansen, J. Kellogg, T. Volin, T. Garity, M. Day. *STANDING:* J. Korybal-

ski, T. Faucett, D. Ramsey, W. Heglund, B. Perkins, D. Hill, D. Stallard, J. Horton, J. Gauss, A. Stimac.







Left to right: *ROW 1*: E. Welsh, B. Betzing, L. Kosovac, M. Uren, D. Tretheway, P. Eddy, H. Kessler, E. DeDryer.

## PHI LAMBDA BETA

The Phi Lambda Beta Sorority was established on campus in January of 1958. Through the many social functions and services of the sorority, the co-eds have been able to approach their objectives: broadening their social lives and creating closer relations between the college and its co-eds.

Other goals of the Phi Lambs include the maintaining of high academic standing and the upholding of good relations between its members and the community.

Φ Λ Β





Michigan Tech fraternities are known for their formal dances, informal parties, . . .

## GREEKS IN ACTION



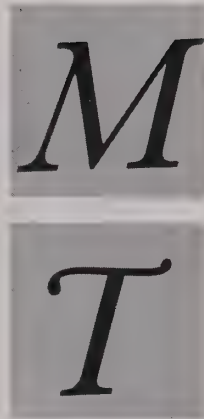
. . . refreshments, and even a little bit more.





# ORGANIZATIONS

A relatively small variety of academic interests characterize the Michigan Tech student body; therefore, a wide variety of co-curricular activities are organized to fulfill the needs of the students. These special interest organizations provide a laboratory for applying principles learned in the classroom, an opportunity to explore professional interests, and a medium for cultural broadening or creative expression. The performance achieved in these organizations reflects a spirit of dedication, cooperation, and service.











*ALPHA SIGMA MU, ROW 1: D. Bain, B. Turrie, J. Cline, Pres.; D. Rahoi. ROW 2: J. Relyea, A. Stimac, H. Schmidt, D. Rogers, J. Wolbrink.*

## ALPHA SIGMA MU

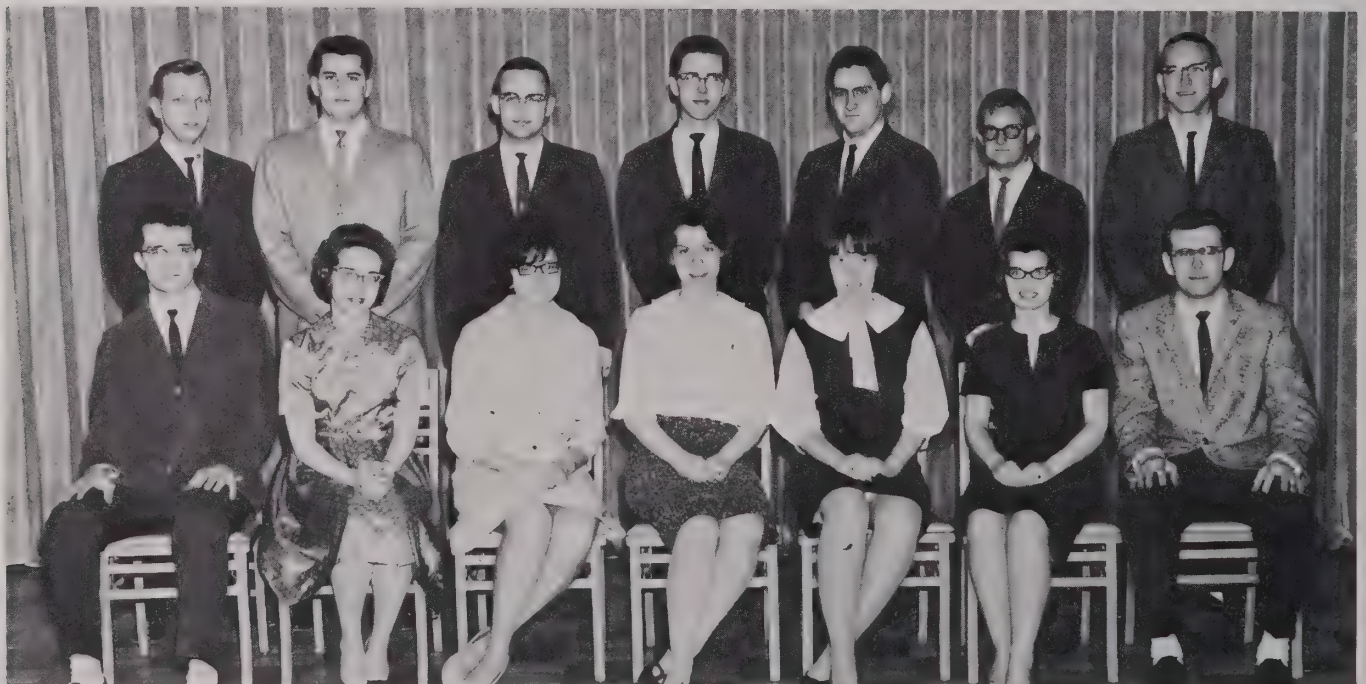
Alpha Chapter is the parent chapter of Alpha Sigma Mu. Founded at Michigan College of Mining and Technology in January, 1932, Alpha Sigma Mu limits membership to certain scholastic attainments in the field of metallurgy.

## BIO SCIENCE CLUB

Beta Iota Omega was founded on the Tech campus in the Fall of 1963 to bring students interested in the study of medicine and the biological sciences together professionally and socially, to represent them in campus affairs, and to promote student research in the biological sciences.

*BETA IOTA OMEGA, ROW 1: J. Rows, Pres.; C. Schroeder, P. Zickus, S. Winchester, S. Ruuspakka, J. Archibald, L. Abrahamsen.*

*ROW 2: J. Komula, R. Sayen, C. Pierson, P. O'Leary, D. Billie, P. Davis, B. Volker.*







*CHI EPSILON, ROW 1:* E. Neumann, W. Kircik, E. Campbell, P. Wilden, D. Trautner, Pres.; D. Murray, D. Dail, H. Santeford. *ROW 2:* F. Wythe, G. Brockington, W. Roberts,

W. Reid, J. Hawkey, R. Bunce, R. Davis, R. Hodek. *ROW 3:* R. Rummer, D. Hoffman, W. VanWagoner, F. Meintz, J. Allen, L. Dyar, R. Scott, R. Anderson.

## CHI EPSILON

Chi Epsilon, the National Honorary Civil Engineering Fraternity, is dedicated to the purpose of maintaining and promoting the status of Civil Engineering as an ideal profession.

## ETA KAPPA NU

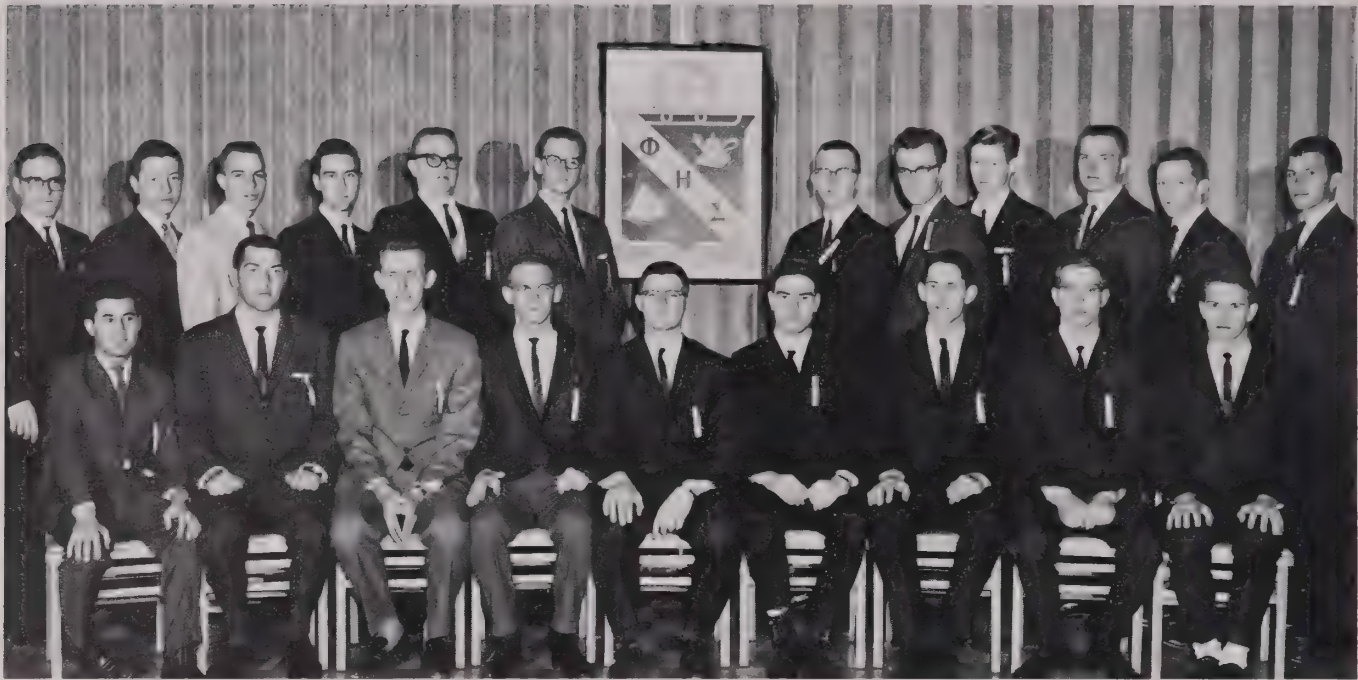
Eta Kappa Nu, honor society, installed at Tech in 1936, recognizes Electrical Engineering students in the upper quarter of the junior class and the upper third of the senior class.

*ETA KAPPA NU, ROW 1:* Right to left: G. Lillesve, W. Anderson, D. Van Uum, R. Bozich, R. Oswald, Pres.; G. Saxton, R. Farrell, M. Hutson, G. Maki. *ROW 2:* G. Lawson, M. Lind, W. Holbrook, L. Laurich, W. Richie, D. Huntsinger,

C. Fossbender, S. Cook, W. Tsuramsto. *ROW 3:* J. Jennison, K. Burnette, P. Heintz, P. Nurkkala, J. Fraser, T. Linden, P. Talvensaari, L. Schoof, M. DeJonge.







*PHI ETA SIGMA 1962-1963* ROW 1: A. Al Muti, G. Weather-  
erson, E. Simonen, J. Roe, N. Ruonavaara, H. Kellman, D.  
Huebner, R. Pomazal, P. Rohrkemper. ROW 2: E. Gunn, F.

Fuller, H. Seppanen, G. Davison, J. Plaistow, R. Anderson, T.  
Freeman, D. Underhill, J. Koskela, D. Hutula, R. Carpenedo,  
M. Elmer.

## PHI ETA SIGMA

Phi Eta Sigma is an honorary society which encourages and rewards high scholastic achievement among freshmen. It was organized at Tech in 1954. Membership is confined to freshmen gaining a 3.5 average in the first-quarter of the first year of residency.

*PHI ETA SIGMA 1963-64* New members include: C. Ahnen, B. Boyd, D. Calihan, R. Cardwell, N. Foreman, P. Gaines, P. Gerritsen, T. Helmes, H. Hueckstaedt, J. Hughes, T. Jardis, P. Kehoe,

D. Kimball, M. Klimesh, P. Makela, D. Maki, D. McTavish, J. Plaistow, W. Raduchel, R. Raehl, G. Rantala, D. Rappley, C. Vizanko, R. Weber, J. Willis, R. Willits.







## PHI KAPPA PHI

The Honor Society of Phi Kappa Phi is a national organization established to provide a scholastic honor society dedicated to the unity and democracy of education. Its primary objectives are to emphasize scholarship and character in the thought of college students, to foster the significant purposes for which institutions of higher learning have been founded, and to stimulate mental achievement by recognition through election to membership.

Those elected to Phi Kappa Phi in 1964 include: D. Aho, F. Allard Jr., R. Anderson, D. Bain, R. Boughner, F. Bour-

geois Jr., J. Cline, V. Davis, Jr., J. Dormpierre, R. Freimark, B. Fuller, L. Gast, A. Hanbley, J. Haner, M. Hutson, S. Illikainen, R. Johnson, W. Kauppila, W. Kircik, D. Kochis, J. Konwinski, G. Lawson, T. Loughran, P. Luoma, G. Lyon, A. Martinez, E. Neumann, R. Newland, J. Nicolson, R. Oswald, D. Pakarinen, A. Perrie, C. Pierson, D. Pray, W. Preslan, T. Reuschel, P. Sandretto Jr., G. Saxton, A. Shroff, D. Smilonich, M. Ten Eyck, G. Trousil, W. Tsukamoto, D. Van Uum, C. C. Weber, C. L. Weber.







*PHI LAMBDA UPSILON, ROW 1: C. Weber, J. Shunta, Dr. D. Kenny, D. Kochis. ROW 2: D. Hilliard, S. Illikainen, L. Peterson, J. Allard.*

## PHI LAMBDA UPSILON

Phi Lambda Upsilon promotes high scholarship and original investigation in all branches of pure and applied chemistry. Eligibility is restricted to juniors and seniors in Chemistry and Chemical Engineering possessing aptitudes for research.

## SIGMA GAMMA EPSILON

Sigma Gamma Epsilon has as its purpose, to encourage scientific advancement in the Earth Sciences, and to honor students in that field who have exhibited high scholastic achievement.

*SIGMA GAMMA EPSILON, ROW 1: R. Grass, D. Rahoi, J. Knight, B. Preslan, B. Massey, pres., D. Johnston, D. Day, Dr. C. Hall, J. Juilliand. ROW 2: S. Bizyk, R. Berdusco, L.*

*Goldsmith, J. Miskoe, I. Hall, G. Stone, B. Thuma, D. Kontio, R. Rouse, F. Richter, M. Young.*







*TAU BETA PI, ROW 1*, Right to left: P. Sandretto, W. Kircik, R. Johnson, W. VanWagoner, J. Geis, Pres.; W. Holbrook, W. Tsuramoto, A. Shah, D. Schieman. *ROW 2*: W. Roberts, D. Hilliard, B. Fuller, J. Cline, D. Truax, D.

Yoder, H. Glidden, R. Bunce, T. Groeneveld, G. Saxton. *ROW 3*: R. Anderson, S. Illikainen, J. Guzek, W. Koltak, D. Murray, D. Carlson, E. Horvath, H. Dewey, T. Andrews.

## TAU BETA PI

Tau Beta Pi, an engineering society, is for those students who have shown distinguished scholarship and character in their undergraduate work. Juniors and Seniors holding a scholastic rank in the upper 10% of their respective classes are eligible for membership.

*TAU BETA PI, ROW 1*: Right to left: J. Shunta, R. Scott, K. Wilden, K. Chad, M. Hutson, V. Davis, B. Link, W. Massey, S. Johnson. *ROW 2*: M. Bleum, S. Cook, K. Burnette, G. Lillesve, R. Bozich, R. Oswald, G. Lawson, V. Willson, R.

Farrell, M. DeJonge, D. Huntsinger. *ROW 3*: P. Talvensaari, R. Johnson, L. Laurich, D. Van Uum, P. Heintz, J. Allen, L. Dyar, D. Trautner, J. Cooper, L. Schoof, T. Linden, G. Maki.







*BLUE KEY, ROW 1:* D. Truax, B. Smith, L. Gast, B. Fuller, H. Askin, Pres., J. Cline, V. Davis, B. Bath, B. Link, G. Hintz. *ROW 2:* P. Fritz, G. Hellman, J. Runyon, K. Wilden, T. Reuschel,

J. Drake, W. Jones, M. Gustafson, J. Johnson, W. Kauppila, D. Stallard, D. Hoffman, M. McCarthy, D. Elliot, E. Klemett, T. Groeneveld, J. Wylie.

## BLUE KEY

Members of Blue Key, a national honor fraternity, are dedicated primarily to serving their university. Tech's outstanding Winter Carnival is under the sponsorship of Blue Key.

## ALPHA PHI OMEGA

Alpha Phi Omega is a service fraternity of former scouts dedicated to service. In the past year, Epsilon Lambda chapter has operated the used book store, ushered at athletic events, published the student-faculty directory, supported various charities and provided many other services to campus and community.

*ALPHA PHI OMEGA, ROW 1:* J. Sievers, D. Pope, M. Betting, D. Murray, J. Gramlich, J. Wylie, J. Hostman, D. Gaylord, E. Griff, H. Santeford, G. Helms. *ROW 2:* A. Peterson, P. Fernstrum,

W. Rowley, F. Kramarczyk, R. Johnson, G. Jandrey, R. Hammar, K. Bowman, B. Dominic, C. Pierson, D. Keithly.







*ACCOUNTING CLUB, ROW 1:* J. Slattery, S. Tidwell, J. Richard, R. Piiparinen, J. Lukonich, J. Brack, Pres., K. Rowbottom, G. Switeer, T. Korpi, L. Morgan, R. Marcell. *ROW 2:* R. Smith, J. Grenfell, D. Banfield, E. Robinson, R. Fer-

rando, J. Grasseschi, G. Pintar, J. Telschow, C. Neff, M. Sloan, D. Robinson. *ROW 3:* D. Govednik, J. Soczek, W. Kivi, H. Johnson, J. Gourlie, J. Stroup, P. Sopsich, K. Gervais, J. Makinen, T. LaFleur, N. McLean, J. Good.

## ACCOUNTING CLUB

The Accounting Club was organized to supplement classroom work through contact with persons and firms specializing in the field of accounting, joining together present and past students of accounting in a common organization.

## AMERICAN CHEMICAL SOCIETY

American Chemical Society furthers the interest of student chemists by promoting lectures, group participation by members, and an encouragement to join the national ACS after graduation.

*AMERICAN CHEMICAL SOCIETY, ROW 1:* R. Barra, J. Gramlich, M. Niva, V. Rizzo, B. Welch. *ROW 2:* Right to Left: M. Hammond, R. Bilz, P. Konvalinka, T. Obst, J. Meyers, J. Bolthouse.







*ARNOLD AIR SOCIETY, ROW 1:* T. Schuster, G. Koons, W. Riegel, A. Comrie, R. Dean, G. Schroeder, R. Freimark, M. Chase. *ROW 2:* D. Currey, B. Turner, L. Dyar, W. Klen-

ner, J. Calder, G. Smelik, J. Tulloch. *ROW 3:* V. Rukstalis, P. Jensen, L. Bolio, H. Howes, T. Kisinger, R. Romain.

## ARNOLD AIR SOCIETY

The Arnold Air Society was formed in order to further the purpose, tradition, and concept of the United States Air Force, advance air and space age citizenship, support air-power in its role in national security, create a closer and more efficient relationship within the Air Force Reserve Officers Training Corps, and aid in the development of the Air Force officer.

## SAME

The Karl Hansen Post of the Society of American Military Engineers was organized on the Tech campus in 1953. It was named in honor of Karl Hansen, a Tech graduate who died following service in Korea. The Tech post is one of approximately 60 located at various colleges and universities around the country. The purpose is to advance knowledge of the science of military engineering and to encourage and develop a spirit of cooperation between military and civilian engineers.

*SAME, ROW 1:* W. Andrews, J. Hostman, E. Neumann, Pres.; J. Gramlich, G. Jandrey, C. Beldwin. *ROW 2:* G.

Branum, S. Latchaw, P. Lewis, D. Bush, M. Smith, K. Kessler, G. Holmberg, R. Hudson.







*AIME, ROW 1:* W. Miskoe, R. Leonardson, J. Dobell, W. Unis, J. Hopkinson, Pres.; B. Laakso, M. Laub, T. Gerderber, R. Martindale, R. Jenkins. *ROW 2:* F. Lyon, J. Lingg, H. McComb, L. Samuelson, G. Wilkinson, M. Robords, J.

Schwensen, N. Byrne, J. Nicholls, D. Vitone, W. Stanley, M. Anderson. *ROW 3:* J. Levay, I. Dickie, L. Rajala, C. Stafford, E. McMaster, B. Elliott, J. Avery, P. Dohms, J. Litsenberger, J. Kantor, J. Hanttula, W. Toepfer, T. Rosemeyer.

## AIME

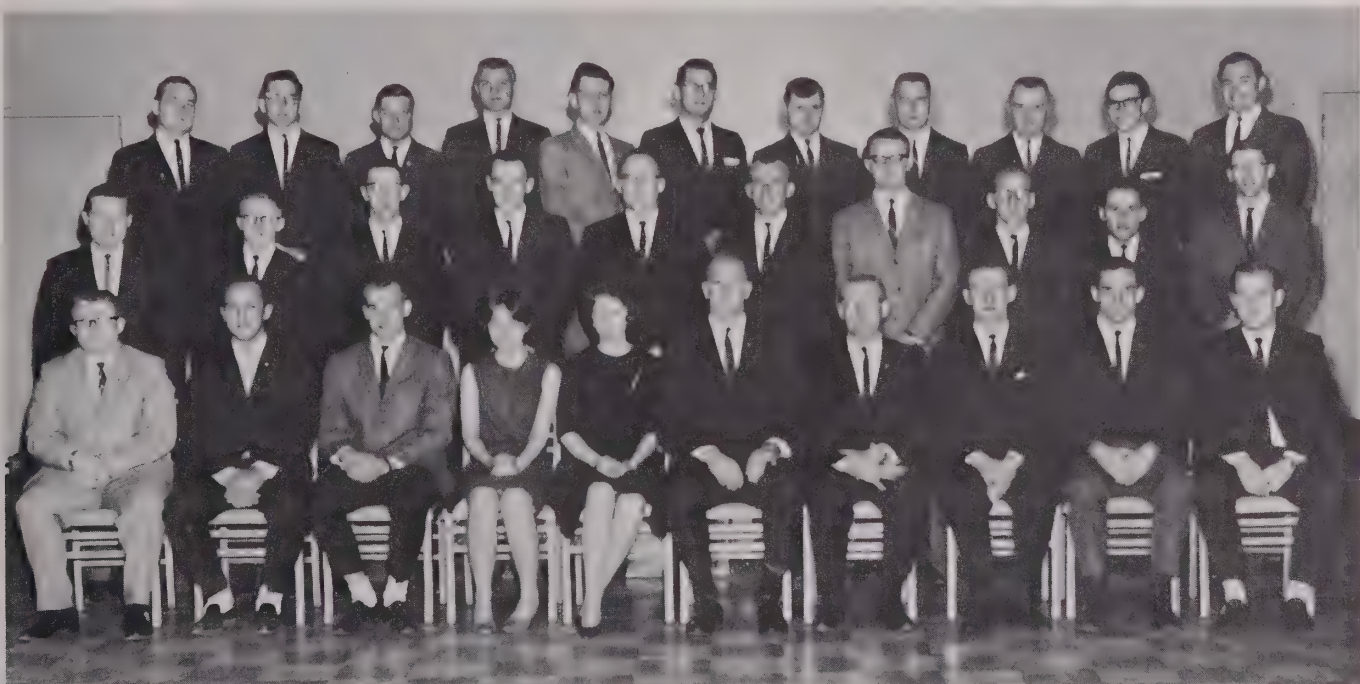
The American Institute of Mining, Metallurgical, and Petroleum Engineers is an organization which has, as one of its primary functions, the furthering of co-operation among members of the minerals industry. The A.I.M.E.'s large and active membership is an indication of their success in furthering work in the mineral industry.

## ASCE

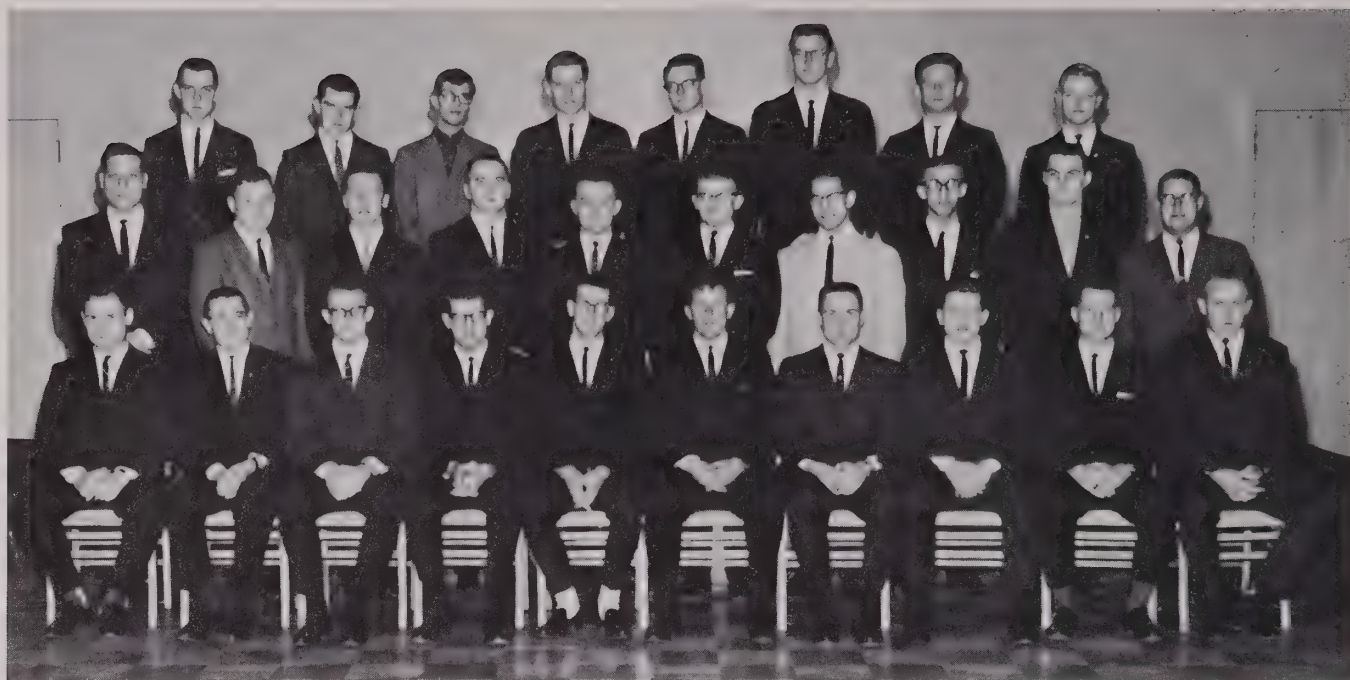
The purpose of the American Society of Civil Engineers is to encourage the development of a professional consciousness and to afford an opportunity for civil engineering students to practice working together effectively.

*ASCE, ROW 1:* M. LaViollette, W. Kircik, G. Inman, J. Carlson, P. Dunbar, E. Campbell, Pres.; H. Santeford, J. Hawkey, T. Weston, F. Hansen. *ROW 2:* C. Dahl, H. Krook, F. Meintz, R. Anderson, W. Roberts, D. Murray, F. Heaps,

R. Davis, E. Elnick, W. Gribble. *ROW 3:* E. Overmyer, C. Olson, D. Aho, J. Lindell, J. Pearson, J. Drelicharz, D. Baumgartner, J. Allen, R. Scott, P. LaViollette, B. Doughton.







*AICHE, ROW 1:* R. Piira, D. Kochis, B. Davey, W. Koitak, J. Shunta, L. Martz, Pres.; J. Allard, J. Rosinski, K. Lee, S. Illikainen. *ROW 2:* D. Grinwis, J. Hostman, J. Guzek, P.

King, P. Wilson, D. Hilliarch, R. Schindel, G. Jandrey, D. Dobson, H. Glidden. *ROW 3:* M. Smith, C. Keranen, T. Sepanen, A. Sigel, W. Bond, W. Root, C. Weinert, L. Peterson.

## AICHE

The American Institute of Chemical Engineers helps to educate future chemical engineers in the understanding of their chosen field.

## AMERICAN INSTITUTE OF PHYSICS

The American Institute of Physics was organized to stimulate interest in physics and to provide for exchange of ideas among students of physics and related fields.

*AIP, ROW 1:* C. Casanova, N. Franz, W. Bassett, J. Cooper, J. Nelson. *ROW 2:* B. Barkalow, R. Pohanka, L. Ramia, M. Teheyck, R. Meyer, M. Horseman.







*IEEE, ROW 1:* V. York, G. VerDuin, A. Sykes, W. Stebins, W. Richie, Pres.; T. Powers, R. Oswald, T. Johnson,

J. Clark, W. Rowley, G. Frenzel, G. Maki, R. Bozich, R. Molloy, J. Fraser, J. Corathers, J. Jennison, G. Saxton.

## IEEE

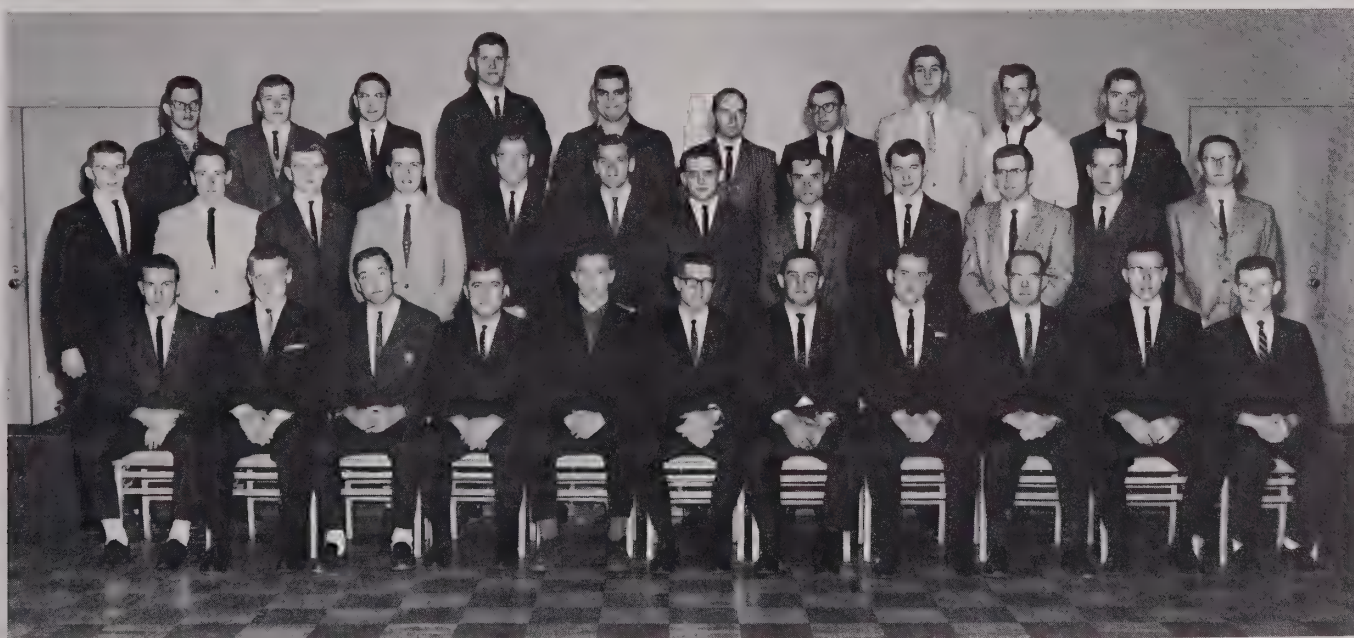
The American Institute of Electrical Engineers and the Institute of Radio Engineers have united under the name of the Institute of Electrical and Electronics Engineers. Their purpose remains the strengthening of Technical and literary bonds with classmates, instructors and graduate engineers. The organization provides many opportunities to members for broadening acquaintances in the Engineering world.

## FORESTRY CLUB

This is an organization founded for the purpose of bringing forestry students closer together socially and professionally and to represent them in campus activities. The club has represented itself well in the intramural program with a first in basketball and a second in bowling. Other successes include a first in Winter Carnival Special Events.

*FORESTRY CLUB, ROW 1:* T. Ross, J. Whipple, G. Sellers, M. Kraus, E. Mahringer, T. Reuschel, D. Krejcarek, J. Nicolson, Pres.; J. Warren, V. Bosman, J. Schultz. *ROW 2:* J. Balsiger, E. Martinson, J. Granskog, W. Copeland, P.

Pierce, G. Anderson, G. Dye, J. Floria, D. Zaug, L. Abrahamson, B. Tyler, L. Gotcher. *ROW 3:* D. Stone, B. Salchert, G. Simmons, B. Dunn, B. Kinsey, D. Mahy, D. Canavera, R. Jones, R. Flanders, D. Omernik.







*ASM, ROW 1:* L. Dubay, W. Truckner, A. Stimac, R. Honkonen, F. Lyon, D. Gaylord, Pres.; R. Petrusha, B. Turrie, G. Witter, J. Demerino. *ROW 2:* T. Pong, J. Relyea, R. Murray, B. Young, F. Moore, J. Cline, D. Bain, D. Rahoi, D. Truax,

D. Bush, G. Millsaps. *ROW 3:* H. Schmidt, L. Panek, M. Lalich, J. Stauter, R. Hammar, K. Alarie, D. Walerczyk, C. Stibitz, R. Ganga, G. Helms.

## ASM

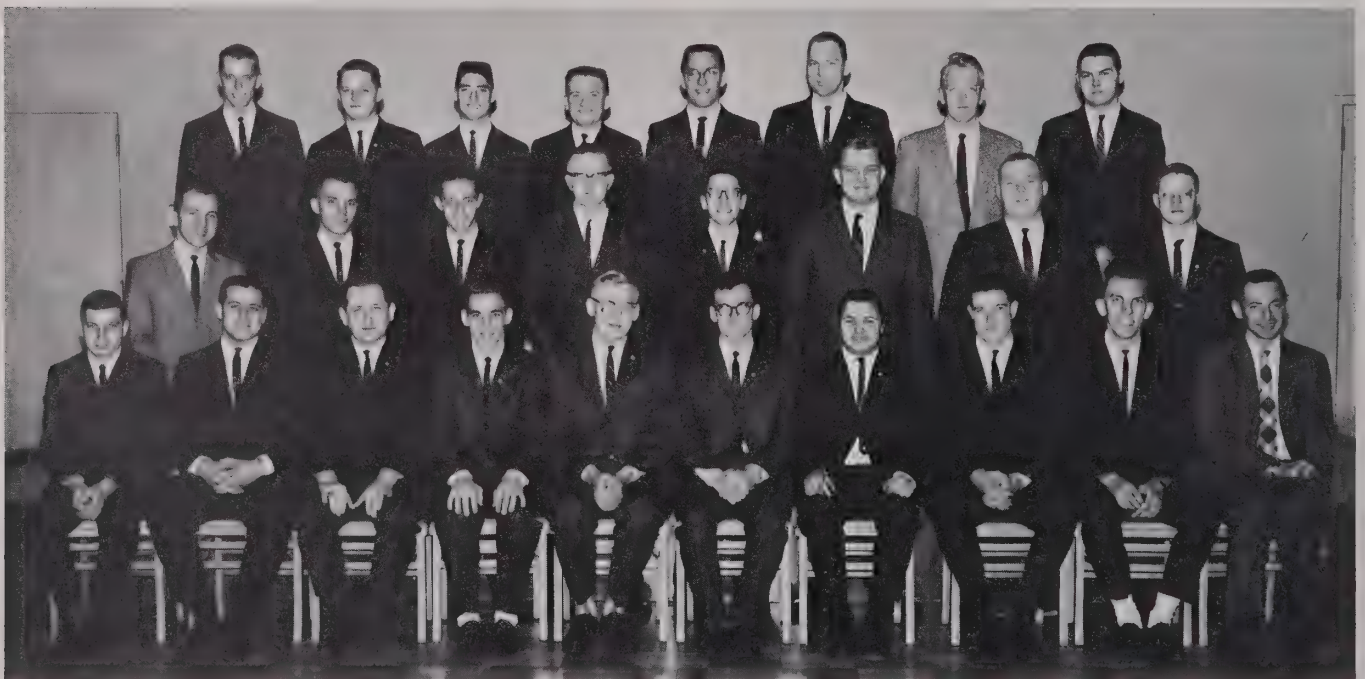
The American Society for Metals provides information about metals. It is devoted to the promotion of science and engineering in the manufacture, treatment and use of metals.

## ASME

The student section of the American Society of Mechanical Engineers was organized to acquaint students with the profession of engineering as it is practiced today.

*ASME, ROW 1:* K. Hudtari, A. Arsenault, W. Martin, J. Cheshire, E. Everett, R. DeGroot, J. Santilli, Pres.; J. Mikols, T. Wozniak, R. Papworth. *ROW 2:* R. Johnson, D. Hintsala,

W. Hodge, D. Roos, R. Boughner, J. Seppala, R. Johnston, K. Shenefiel. *ROW 3:* J. Keyes, G. Monette, R. Mackintosh, W. Roberts, D. Taulu, D. Matz, W. Lindell, F. Stimpson.







Left to right: *ROW 1*: B. McCarthy, J. Potter, M. Laub, E. Sipanen, K. Siirtola; *ROW 2*: P. Oja, P. Trettel, J. Archiband, C. Rogers, P. Dunbar, M. Honkanen.

## ANGEL FLIGHT

## GIRLS GLEE CLUB

Left to right: *ROW 1*: K. Leipprandt, P. Foley, M. Niva, B. Betzing, C. Frick, B. Frick, R. Campbell, J. Olson, P. Mumford; *ROW 2*: Mrs. Goodell, J. Nurkkala, K. O'Brien, S.

Ruvspakka, P. Zickus, K. Mattson, R. Ohtonen, D. Wiitanen, B. Benna, B. McCarthy.







*STUDENT COUNCIL ROW 1: L. Gast, B. Benna, J. Cline, W. Jones, B. Fuller, M. McCarthy, W. Bath, H. Glidden. ROW 2: D. Elliot, K. Hunt, P. Fritz, M. Gustafson, L. Laurich, D. Truax, A. Stevens, T. Verville, J. Avery.*

## STUDENT COUNCIL

*STUDENT COUNCIL OFFICERS* M. McCarthy, Vice-Pres, W. Jones, Sec., B. Fuller, Pres., W. Bath, Treas.



The Student Council is the governing body of the campus as far as student activities are concerned. With money that is provided from the local activity fee the Council promotes academic, social and other extracurricular activities on campus.

Some of the annual Student Council sponsored events are: K-Day, Student Insurance Program, Fall and Spring Concerts, the Polio Clinic, hockey broadcasts, and the financial backing of events such as Homecoming and Winter Carnival.





*BOARD OF STUDENT PUBLICATIONS, SEATED: C. Pidgeon, L. Gast, A. Taylor, K. Kok. STANDING: J. Hopkinson, W. Bath, R. Belanger, A. Johnson, A. R. Howard, Dean Meese.*

## BOARD OF STUDENT PUBLICATIONS

The Board of Student Publications is composed of the editors and business managers of the Lode and Keweenaw, their advisers, a financial adviser, the Dean of Students, and three representatives of the student body. The Board appoints the editors and business managers of the publications and maintains financial control over them.

## STUDENT JUDICIARY

The Student Judiciary acts as an arm of the administration, dealing with cases of student offenses. Its purpose is to give justice to students by students. Appointments to the Student Judiciary are made by the Student Council. A recent survey of similar organizations in other colleges across the country pointed out that Tech's Student Judiciary is rather unique in being composed solely of students.

*STUDENT JUDICIARY, C. Harris, D. Meddleton, J. Brack, B. Link, R. Bilz.*







Larry Gast  
Business Manager

Tim Travis, Photo Editor



Mr. A. R. Howard, Adviser



Jeff Johnson,  
Organizations Editor



Jim Kraemer,  
Photographer







Andy Perrie, Senior Editor



Andy Taylor, Editor

## KEWEENAWAN STAFF

Jim Zukowski, Sports Editor



Jon Telschow, Accountant







Ken Kok, Editor



John Blanchard, Jim Kraemer, Photographers; Roger LaMothe, Photo Editor.

## LODE STAFF

Lynn Morgan, Prof. Robert Belanger, Adviser, June Lukonich, Subscription Mgr., John Brack, Accountant, Jerry Grenfell, Ass't. Accountant.



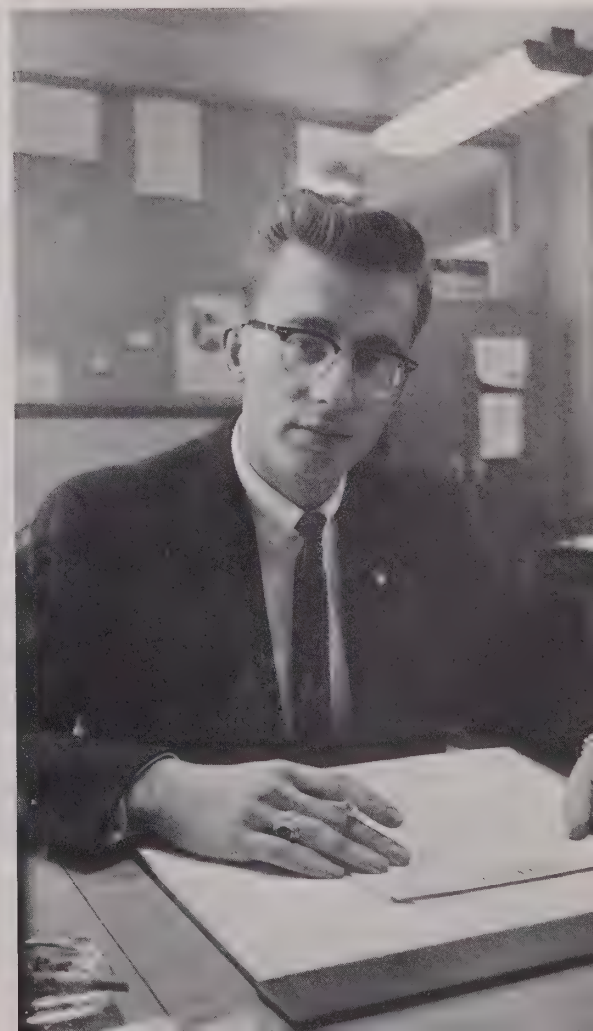




*STANDING*, left to right: Mary Robords, Rich Pierce, Cris Rogers, Mary Lou Juntila, Jim Hawk, Dale Van Wulfen, Dave Bush. *SEATED*: Barb Betzing, Dennis Kreiner.

Gerald Switzer, Business Manager

Paul Rohrkemper, News Editor; Dave Carlson, Copy Editor; Marty Oldford, Managing Editor.







*UNION BOARD, SEATED: E. J. Townsend, J. Lukonich, P. Wilden, P. Shandley. STANDING: J. Runyon, P. Sullivan, J. Mitchell, J. Hellman, D. Yoder.*

## UNION BOARD

The Union Board was organized upon the completion of the Memorial Union Building in 1952 to act as a co-ordinating unit between the student body and the Union Building management.

## I. M. BOARD

The Intramural Board is the governing body over non-varsity student athletics on the Tech campus. The board establishes rules for intramural competition and presents trophies to the leading organizations in overall competition.

*INTRAMURAL BOARD, SEATED: L. Becks, R. Miller, R. Erickson, J. Rozsa, R. Kay. STANDING: A. Holmes, J. Pirie, J. Balsiger, G. Ptak, S. Weiss, W. Unis, W. Hunter.*







*DANIELL HEIGHTS COUNCIL ROW 1:* M. Chalifoux, L. Cass, Pres., L. Panek, E. Campbell, J. Cheshire, E. Sauer, R.

Johnson, S. Sorenson *ROW 2:* R. Greene, D. Weller, D. Dams, B. Mayer, K. Alarie, S. Frederick, S. Toman, H. Belcher.

## DANIELL HEIGHTS COUNCIL

The Daniell Heights Council is the governing body for Daniell Heights, the student housing project on campus. The council is elected by the residents for one year term of office. Meetings are held monthly and any problems which arise are discussed and solutions are worked out with the head of the housing project.

## INTERFRATERNITY ASSOCIATION

The Interfraternity Council attempts to promote cooperation between the six fraternities on campus. Representatives from all fraternities work to regulate fraternity activity on campus.

*IFA ROW 1:* D. Marke, W. Massey, E. Yock, D. Hoffman, Pres., T. Groeneveld, R. Greketis, J. Bregi, R. Rusing. *ROW*

*2:* D. Stallard, H. Hardy, J. McCombs, D. Rahoi, G. Benedick, D. Carlson, D. VanWulfen, R. Thompson.







*AQUINAS CLUB ROW 1: K. Makins, L. Ward, M. Bartos, G. Greketis, R. Greketis. ROW 2: W. Anderson, G. Demski, M. Bartos, President, W. Wright, K. Lee, J. Makens.*

## AQUINAS CLUB

The purpose of the Aquinas Club is to develop the faith of the Catholic married students on campus.

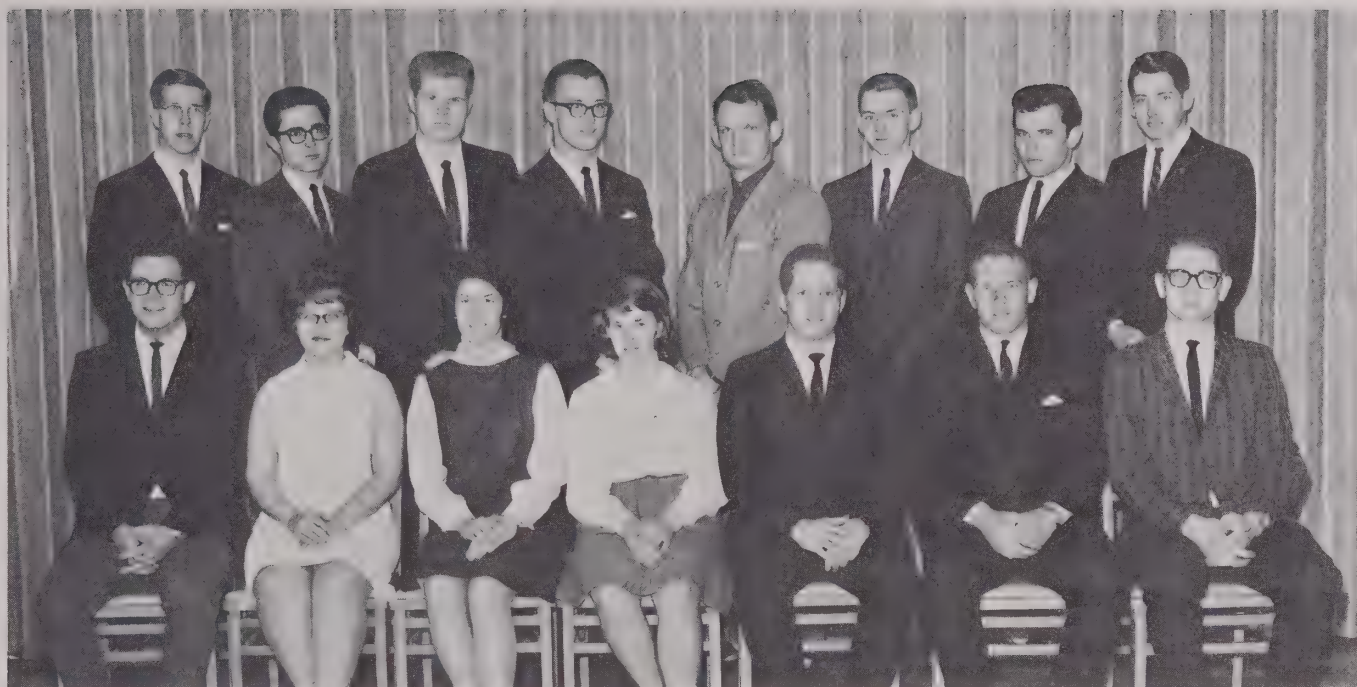
## CANTERBURY CLUB

The purpose of the Canterbury Club is to promote the spirit and ideals of Christian fellowship among the Episcopal students and faculty of Michigan Tech.

*CANTERBURY CLUB ROW 1: W. Stanley, J. Hopkinson, P. Mumford, S. Doughton, O. Ormsby. ROW 2: B. Doughton, J. Zaikowski, F. W. Wiedrich, J. Hopkinson.*







*GAMMA DELTA, ROW 1*, Left to right: G. Benedict, Pres.; K. Oysti, D. Fudge, S. Donaldson, D. Orth, C. Thornton,

D. Lauts. *ROW 2*: D. Ilka, W. Keller, L. Piiparinen, E. Clark, K. Pedde, C. Baldwin, M. Bell, R. Murray.

## GAMMA DELTA

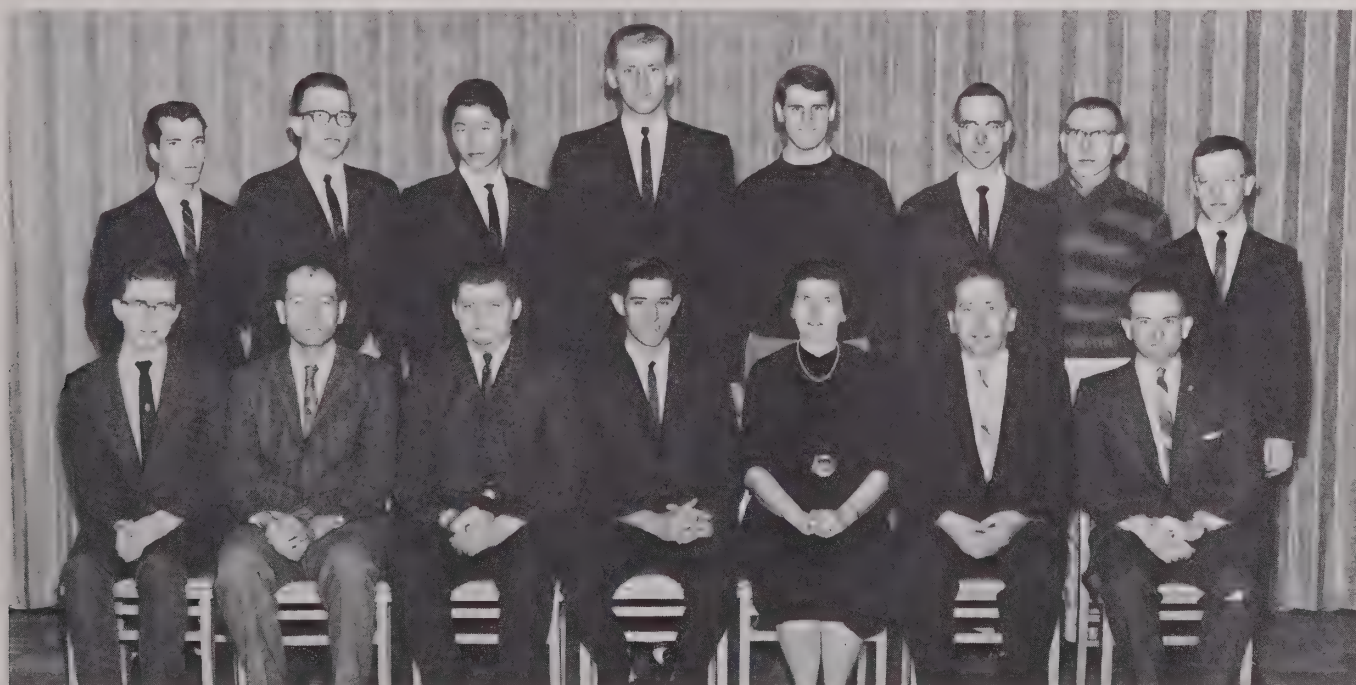
Gamma Delta is an international association devoted to giving the Lutheran college students a Christian social life on campus.

## UCCF

The U.C.C.F. is a religious organization for the Congregational and Presbyterian students on Tech's campus.

*UCCF, ROW 1*: P. O'Leary, F. Olson, J. MacBride, Jo Foltz, Pres.; Mrs. C. Work, C. Work, B. Conner. *ROW 2*: R.

Flanders, D. Bush, W. Wong, S. Johnson, R. Gundlach, J. Coates, D. Constable, B. Cox.







*LSA, FRONT ROW:* W. Stebbins, Pres.; B. Luttinen, S. Winchester, J. Korhonen. *ROW 2:* N. Ryding, Pastor, R. Stierna, R. Hammar, E. Moerdyk, R. Baker.

## LSA

The Lutheran Student Association organized to strengthen and sustain Christian students in their faith through active participation in all aspects of Christian fellowship.

## NEWMAN CLUB

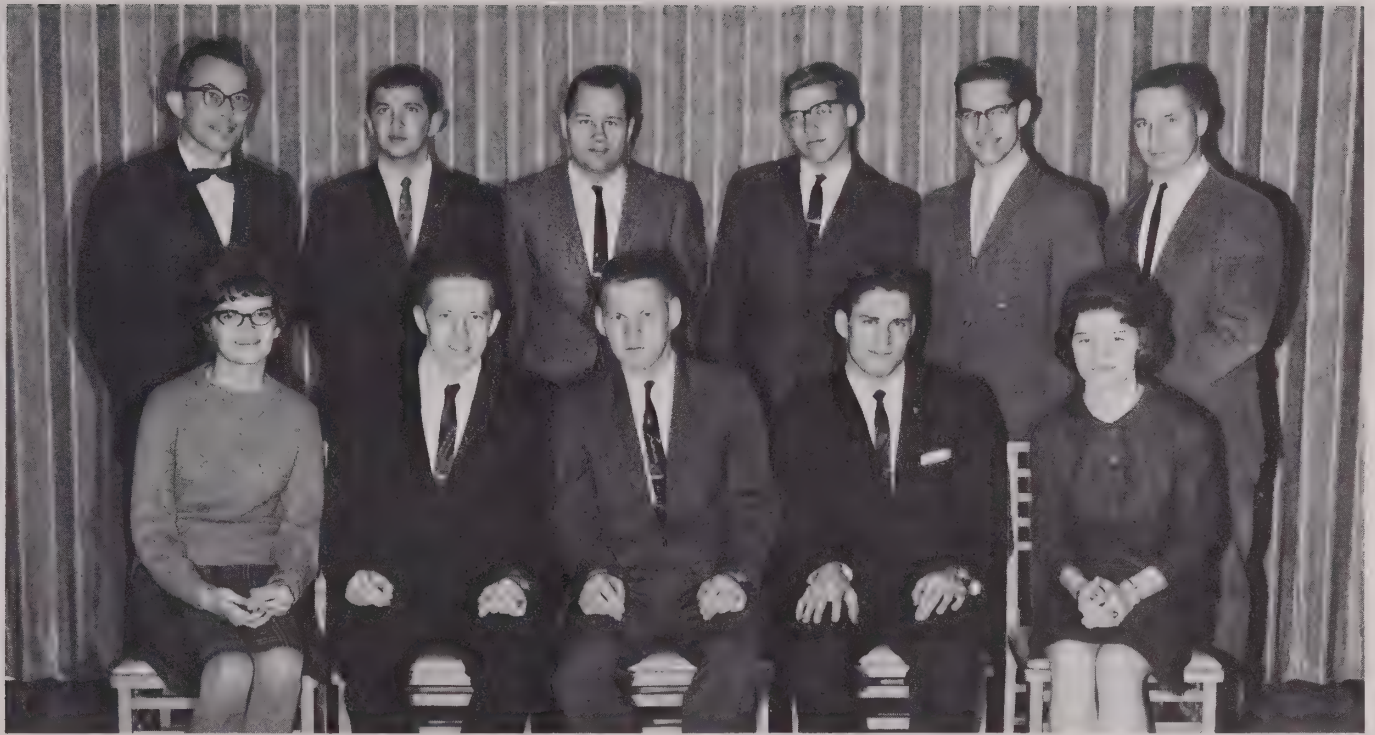
The Newman Club was organized to deepen the spiritual and enrich the temporal lives of its members through a balanced program of religious, intellectual, and social activities.

*NEWMAN CLUB, ROW 1,* Left to right: P. Guizzetti, L. Casteel, R. Boes, J. Roti Roti, Pres.; Father W. McGee, Chaplain, J. Potter, C. Zirnheld, T. Weston. *ROW 2:* M. Muckley, G. Paradise, M. Lalach, B. Steffeck, G. Rhoney, J.

Relyea, G. Phillips, B. Welch, B. Dubay. *ROW 3:* J. Woelfel, F. Newcombe, D. Stephison, L. Ramia, D. Omernik, B. Snowden, E. Martinson, C. Kucharek.







*IVCF, ROW 1: M. Honkanen, J. Helander, R. Hyvarinen, Pres., H. McLean, J. Carlson.  
ROW 2: R. Patterson, R. Yoesting, J. Batdorff, J. Hyvarinen, R. Schindel, P. Parks.*

## IVCF

Inter-Varsity Christian Fellowship is a non-denominational religious organization encouraging prayer and Bible study among students.

## WESLEY FOUNDATION

The Wesley Foundation brings God, through Christ, into the lives of the students at Michigan Tech, by providing a Christian witness through a living example.

*WESLEY FOUNDATION, ROW 1: A. Andrus, J. Rotter, G. Warral, H. Peach, V. Willson. ROW 2: B. Bucholtz, J.*

*Fraser, D. Duca, S. Gilbert, P. Anthony, R. Boardway. ROW 3: G. Rackliffe, D. Bartley, W. Gilbert, V. Rizzo, D. Jingles.*







GLEE CLUB: ROW 1: L. Andrus, E. Kent, J. Sanders, P. Kehoe, D. Miesner, B. Keist, R. Mileski, N. Montgomery, J. Pharis, W. Grainger. ROW 2: L. Dubay, J. Wilks, P. Hampton, D. Huebner, G. Hellman, R. Boardway, H. Jackson, G. Tollefson. ROW 3: R. Oinos, B. Davey, B. Baliaini, J. John-

son, R. Jensen, L. Linquest, W. Dawis, R. Olson, T. Rogers, J. Wittney. ROW 4: B. Raasaaka, J. Umbarger, D. Ashworth, J. Foltz, D. Rappley, P. Heintz, D. Tachick, J. Sikora, C. Noetzel, T. Konkol, W. Kaupila.

## GLEE CLUB

## BAND

BAND: Music Professor Franz Schubert directs the Michigan Tech Ban during a "practice makes perfect" session.







*A.W.S., ROW 1:* M. Honkanen; B. Benna, J. Lukonich, Pres.; B. McCarthy. *ROW 2:* B. Betzing, D. Trethewey, H. Kessler, E. Siponen, M. Niva.

## ASSOCIATED WOMEN STUDENTS

The organization provides representation for women students, and serves the entire student body by supporting high standards of university life.

## TRI BETA

Tri Beta is the musician's fraternity on campus. Among the activities which are sponsored by the group is the annual Excursions in Sound.

*TRI BETA, ROW 1:* L. Morgan, W. Martin, O. Tarvainen, R. Bunce, V. Willson, G. Tollefsen, J. Pharis. *ROW 2:* B. Erkkila, B. Weber, G. Worrall, B. Granger, D. Schultz, J.

Whitney, R. Kovach, D. Rappley, J. Lowell. *ROW 3:* A. Wilks, P. Heintz, P. Kehoe, T. Rogers, K. Cole, T. Kisinger, J. Bruinodge, L. Lindquist, D. Ruttle, D. House.







*ROW 1:* D. Meyer, D. Bergeron, C. Stevenson, L. Kay, B. Weller, R. Campbell, B. Roger, Pres.; C. Weinert, C. Holbrook, C. Krook. *ROW 2:* K. Geiger, E. Roberts, C. Alarie, A. Cheshire, C. Panek, B. Wurl, J. Roephe, M. Peters, L.

Smith, D. Cox, S. Vegh, A. Wright. *ROW 3:* L. Stafford, S. Martz, J. Farrell, J. Larsen, S. Kinsey, J. Hopkinson, L. Seiter, B. Grinwis, M. Schaefer, W. Pelkey, D. Maas, B. Torrey, C. Richards.

## TECH WIVES

*ROW 1:* M. Belcher, K. MacLellan, T. Wimmer, M. Chalfoux, J. Turner, J. Eastland, J. Sharpe, K. Nikunen. *ROW 2:* C. Allard, L. Ward, M. Van Voorhis, G. Johnson, B. Dzierwa,

M. Szekeley, J. Stibitz, J. King, C. Meintz, C. Miller. *ROW 3:* R. Williams, B. Corathers, D. Walcott, M. Bartos, S. McVittie, E. Frederick, S. Billings, N. Hoffman, J. Pilz, C. Mayer.







*TECH WIVES, ROW 1:* N. Forrester, S. Cass, W. Mealoy, S. Bielski, J. Schieman, B. Cavaniani, D. Overmyer, C. Bercik, S. Frederick, C. Link, B. Alfred, K. Armstrong. *ROW 2:* J. Fischer, B. Ross, L. Geenens, G. Anderson, C. Tohm, S. Voogt, J. Demski, G. Greketis, N. Meyers, K. Sloan,

S. Weingarten, A. Brack. *ROW 3:* J. Monroe, V. Levay, J. Bouwhuis, J. Nurkkala, C. DeWinter, P. Boiten, B. Manninen, N. Whitehead, M. Plaistow, H. Luhta, J. House, C. Schultz, L. O'Neil.

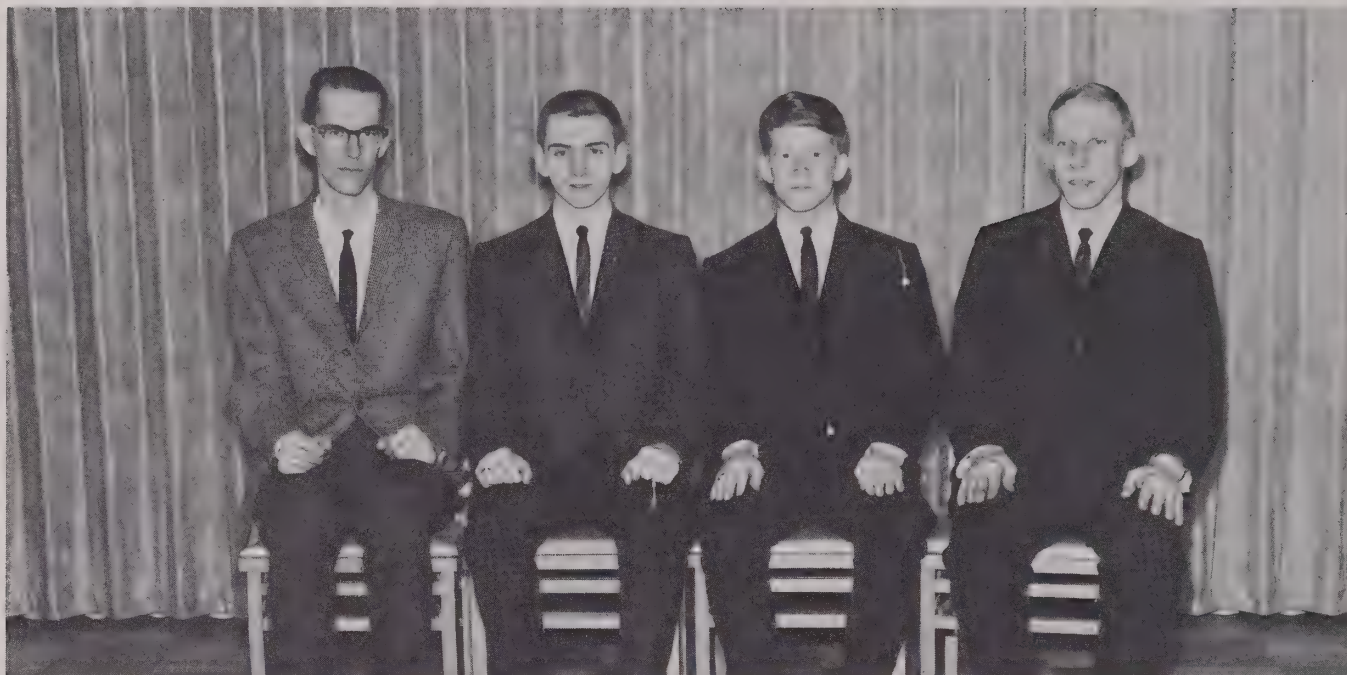
## TECH WIVES

The Tech wives possess one of the largest active memberships of any organization on campus. The main purpose of the group is social, allowing the wives to get to know each other better. Among the activities of the group is the preparation of the Union for the Christmas season.

The beautiful decorations on the Union windows at Homecoming and Christmas have been a project of the Tech Wives for several years.







*C.C. R.R. CLUB* Left to right: J. Lingg, C. Baldwin, A. Moore, E. Robinson, Pres.

## MODEL RAILROAD CLUB

The Model Railroad Club provides model railroad enthusiasts with an outlet for their interest in small scale railroading.

## MICHIGAN TECH BUSINESS CLUB

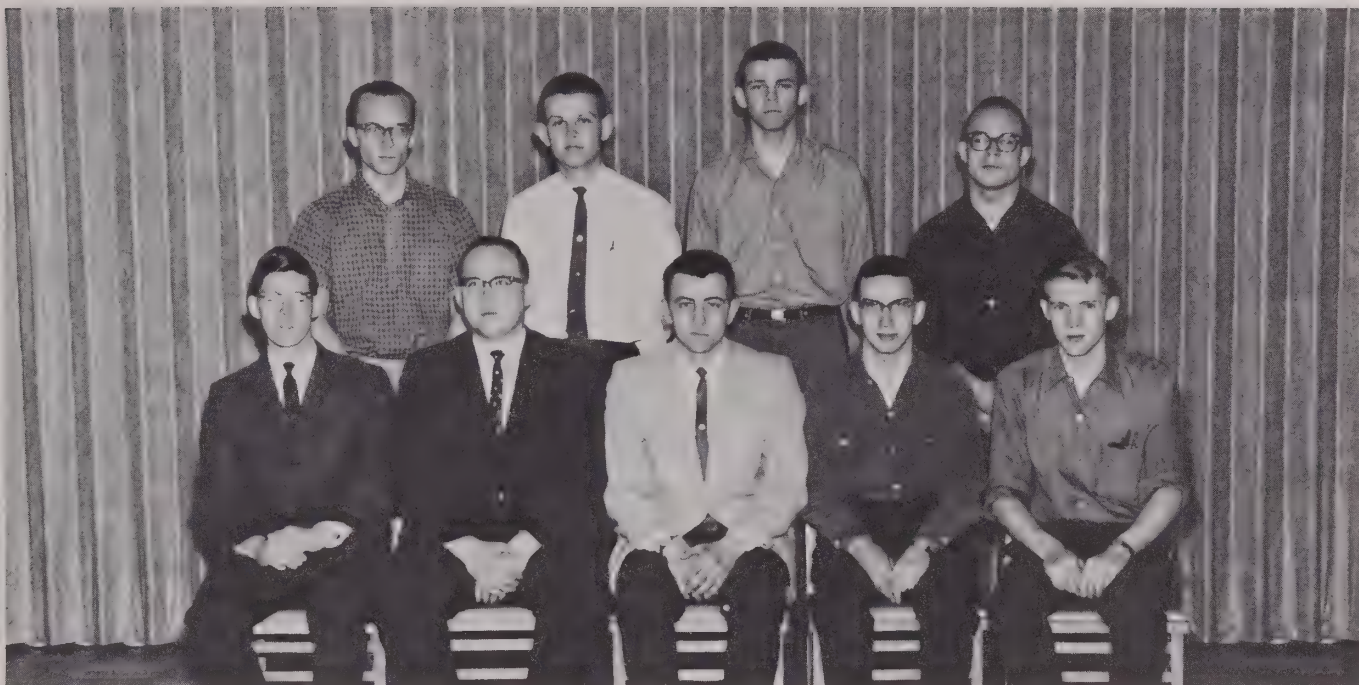
The Business Club is a new organization on the Tech campus dedicated to the furtherance of student interest in current business issues.

*MICHIGAN TECH BUSINESS CLUB ROW 1:* E. Robinson, E. Elliott, Pres.; S. Otis, G. Pinter, J. Makens, R. Chandler, T. Joley. *ROW 2:* D. Lauts, R. Hailala, J. Klass, R. Marcell, R. Johnson, S. ChoCkalingam, R. Sullwan, B. McClin-

toch. *ROW 3:* C. Neff, O. Kingsbury, J. MacBride, D. Condon, B. Steinmeier, B. Frick, D. Johnson, M. Mahajan, R. LaBarre.







*ROCKET SOCIETY, SEATED: D. Metcalf, W. Roberts, B. Bucholtz, D. Druif, R. Campbell.  
STANDING: J. Sutherland, K. Carpenter, R. Ashcraft, S. Wells.*

## ROCKET SOCIETY

The Rocket Society of Michigan Tech was established in 1957 for students interested in broadening their knowledge of the science of rocketry. In 1963 the Society received a grant from the Board of Control for construction of a rocket.

## PISTOL CLUB

The Pistol Club was organized to provide a time and place for pistol shooters to practice and engage in competition.

*PISTOL CLUB, Left to right: D. Mahy, O. Pierce, D. Filley, R. Frank, G. Demski, D. Keithly, D. Pinter.*







*SKI CLUB, ROW 1:* K. Chermak, M. Henricksen, D. Lintner, T. Trefzer, D. Sirola, B. Bozich, Pres.; B. Ahonen, R. Murphy, J. Brosio, J. Knight, J. Brakonecke, B. Keist. *ROW 2:* H. Santeford, R. Raehl, P. Godfrey, D. Richards, C. Gossen, J. Cetnar, B. White, J. Fairchild, R. Jones, L. Kaiser, M.

Cousino, R. Hansen, S. Graves. *ROW 3:* D. McLeod, C. Reynolds, M. Doran, G. Weatherson, D. Thrasher, J. Heiam, R. LaMothe, B. Burnett, K. Carpenter, R. Huebner, R. Molloy, B. Osten.

## SKI CLUB

The Ski Club is composed of skiers from Michigan Tech and the local area. The purpose of the club is to encourage skiing, organize ski trips to different ski areas, and to enjoy the winter sport of skiing through lectures, demonstrations, and films at meetings.

*SKI CLUB, ROW 1:* J. Buss, J. Budzik, W. Ruddell, K. Krapohl, R. Bunce, B. Schmidt, J. Cromie, R. Yoesting, P. Jensen, A. Taylor, C. Trammel, B. Weberg. *ROW 2:* D. Matson, P. Lenahan, E. Whitman, M. Shous, J. Blanchard, B. Mock, J. Yount, M. Biferno, A. Smith, B. Granger, O. Befring,

R. Young, P. Davis. *ROW 3:* E. Linden, M. Day, T. Lypka, J. Hartingh, B. Trimble, J. Higgins, A. Gau, P. Rezin, W. Vogt, G. Wilkinson, W. Phillips, D. Cote, D. Thomas, J. Campbell, B. Belisle.







*IRON RANGERS, ROW 1:* W. Lindell, R. Bozich, R. Manninen, Pres., F. Lunuri. *ROW 2:* J. Jankila, D. Smilonich, S. Frederick, B. Mock, J. Nornberg.

## MINNESOTA IRON RANGERS

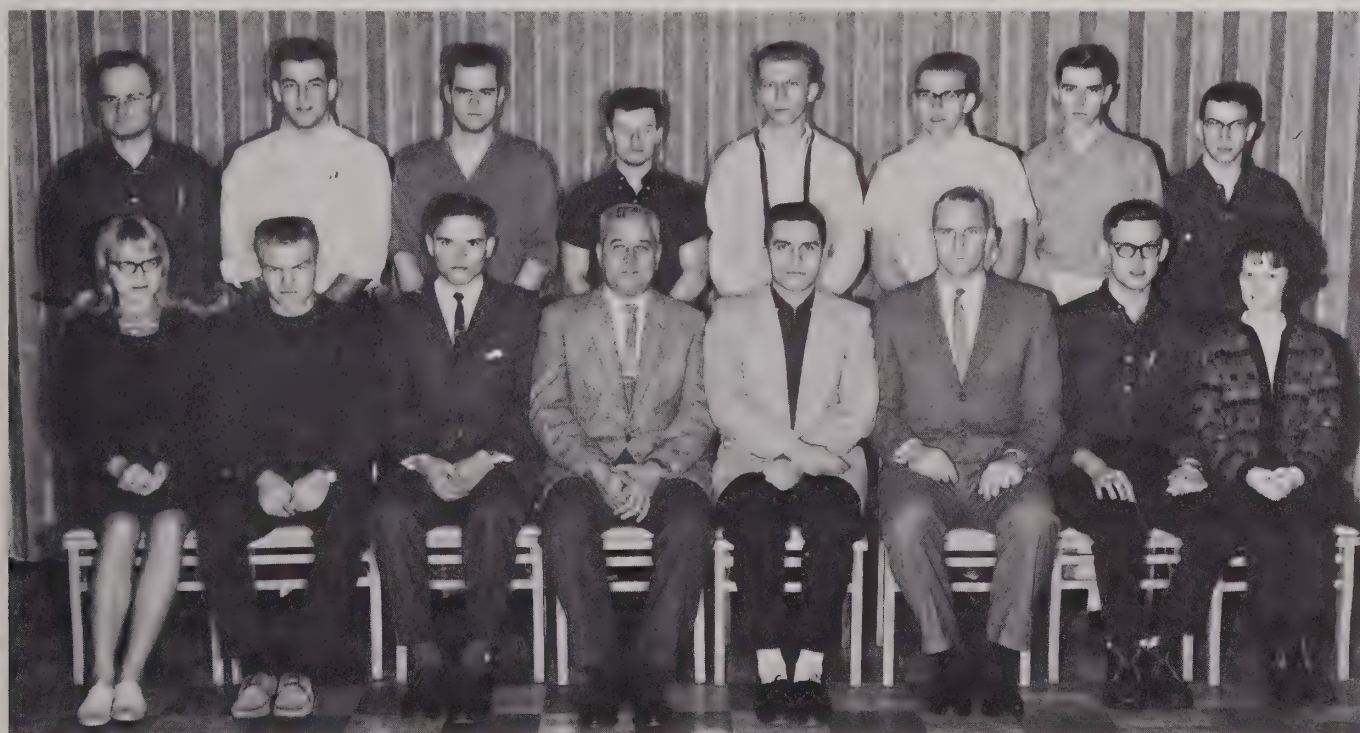
The Iron Rangers were organized in 1956 for students from the Iron Range of Minnesota to unite them for participation in campus activity.

## FLYING CLUB, INC.

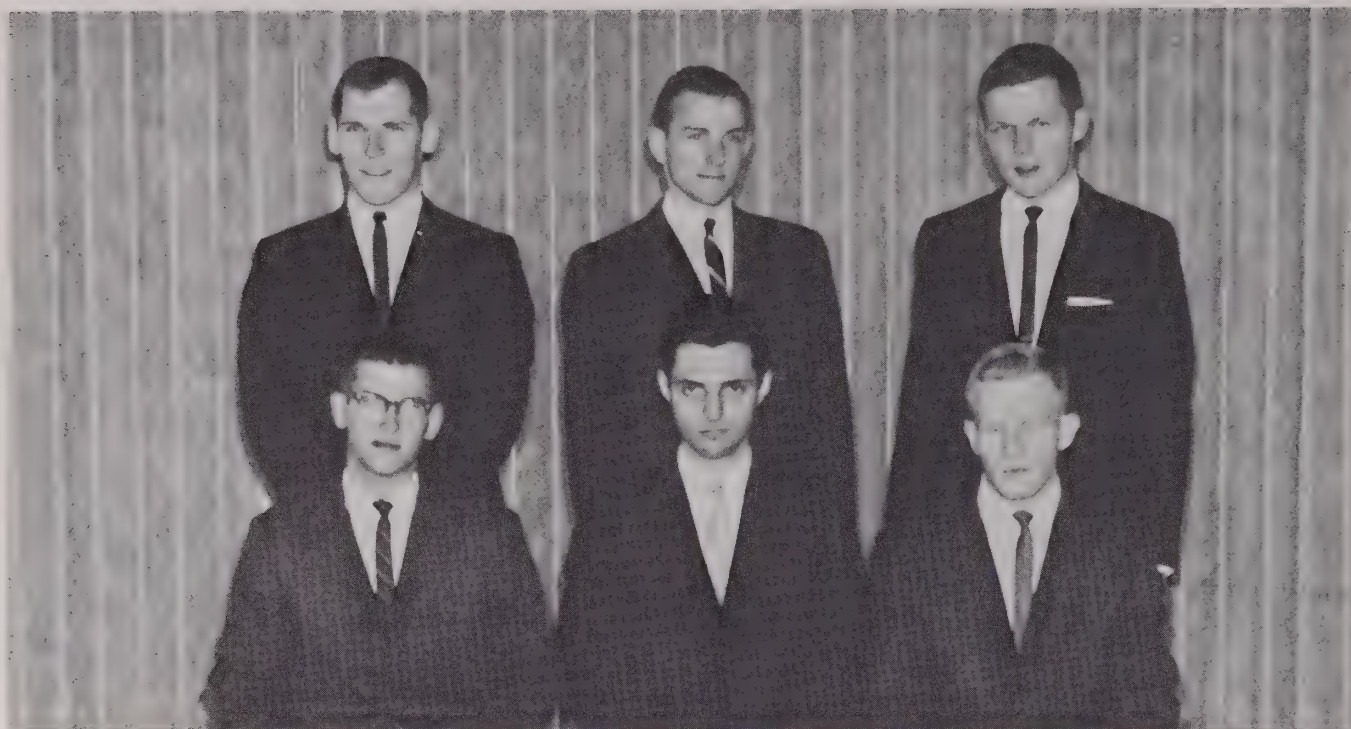
The object of the Flying Club is to promote aviation and its safety. The club has expanded operations in the past year with the purchase of a Cessna 140.

*MICHIGAN TECH FLYING CLUB, ROW 1:* M. Juntila, R. Acker, W. Goff, M. Seale, Advisor, H. Klein, Pres.; E. Campbell, D. House, J. House. *ROW 2:* J. Geis, K. Millard,

E. Heath, R. Spalding, K. Cadman, E. Smith, G. Rhodes, D. Druif.







*SUPERIOR SEALS*; Left to right: *ROW 1*: K. Nothen, B. Farsky, B. Preslan; *ROW 2*: D. Ala, B. Barkalow, H. Best.

## SUPERIOR SEALS

The diving club consists of a group of hardy souls who brave the depths of icy Superior. The binding force for the group is a common interest in skin-diving and SCUBA.

## HUSKIE SKI PATROL

The Huskie Ski Patrol, a member of the National Ski Patrol System, is dedicated to the insurance of safety for skiers and acts as a police force of the ski areas.

*HUSKIE SKI PATROL* Left to right: *ROW 1*: C. Shroll, R. Bunce, B. Donnithorne, D. Stephison, R. Schultz, G. Wilkinson, P. Jacka, T. Kreger, B. O'lendorf, D. Calihan, G. Rack-

liffe, M. Young; *ROW 2*: W. Hodge, R. Murphy, D. Draper, M. Betzing, D. Evans, C. Trammel, J. Campbell, B. Burnett, J. Blanchard.







Left to Right: A. Walter, G. Mitchell, L. Hein, T. Bliss, J. Avery.

## SKY DIVING CLUB

In 1959 the Michigan Tech Sky Diving Team was founded to provide students an opportunity to safely participate in this sport. During the past five years, the only injury to occur was a result of jumper carelessness.

1963-64 saw nine men make their first parachute jump. More than one hundred jumps were made during this period. This was greater than during any other period of the club's existence.

One of the most interesting jumps of this past year was a minute and a quarter delay in which Tom Bliss established an unofficial Upper Peninsula altitude record of 15,000 feet.

The only meet that this year's team participated in was the Marquette Skydivers Meet this May.



Pilot Chuck Pettyjohn gives final instructions to jumper Al Walters.





*INDEPENDENTS, ROW 1:* E. Hainault, R. Raduchel, A. Alatalo, G. Lewis, W. Kauppila, J. Drake, Pres.; R. Wise, D. Caudell, G. Hellman, R. Concon. *ROW 2:* A. Brinkman, C. Umbarger, P. Talford, D. Piippo, J. Wagner, J. Makinen, T.

•LaFleur, J. Good, J. Whitney, R. Gariepy. *ROW 3:* D. Roepke, B. Usimaki, J. O'Connor, B. Lowing, K. Gervais, G. Mikko, D. Pechawer, P. Santori, J. MacBride, P. Olson.

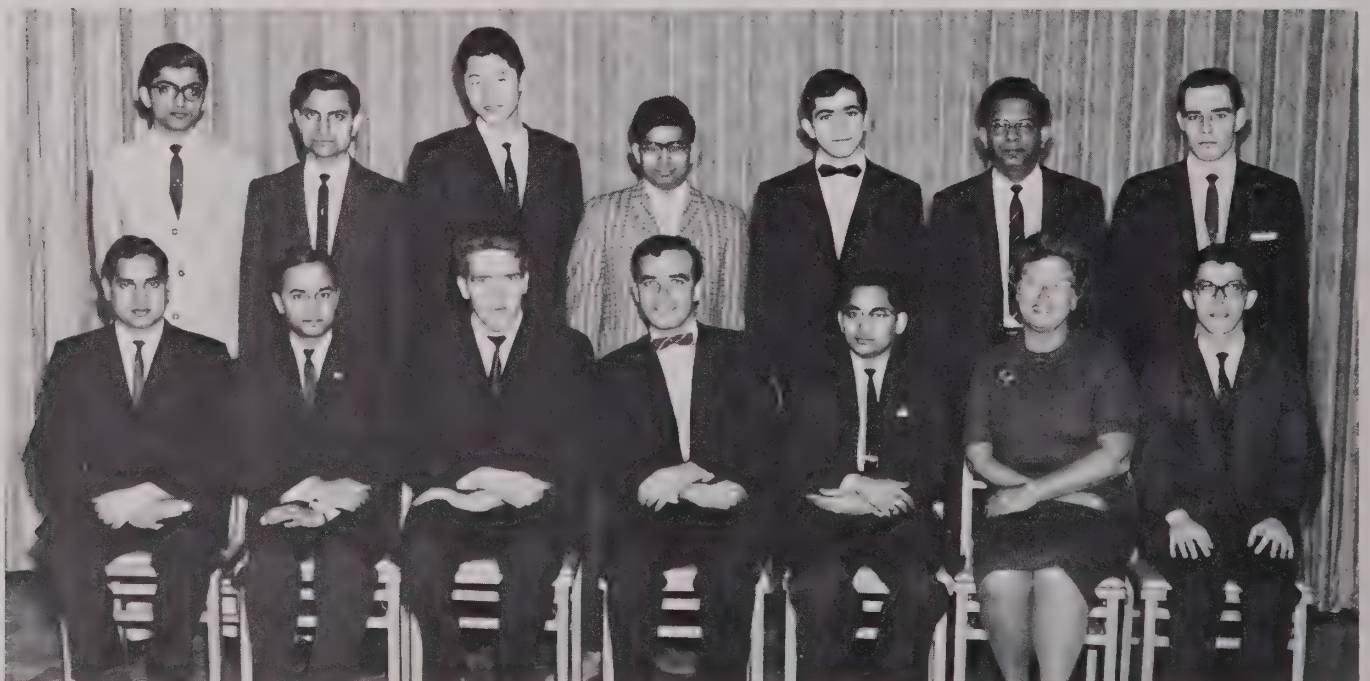
## INDEPENDENTS

Observing the performance of the Independents in social activities such as Homecoming and Winter Carnival, it is obvious that those who desire active participation, can find this group a ready and easily accessible means. Opportunities for leadership are very much present here. The problem of motivating a group which is unified, but not bound in a closely knit way is an adequate challenge to any students seeking leadership practice.

## INTERNATIONAL CLUB

The International Club permits the cultural exchange between students of many lands. Through its many programs, the Michigan Tech student is introduced to traditions and customs far different than his own.

*INTERNATIONAL CLUB, SEATED:* M. Mahajan, M. Khan, O. Befring, Z. Atiyeh, Pres.; A. Shah, K. Kanaley, T. Pong. *STANDING:* G. Bhatia, B. Sethi, W. Wong, P. Perti, H. Adi, V. Sompura, B. Link.







**VARSITY CLUB:** *ROW 1:* J. Hermann, M. Curtis, L. Drury, K. Chermak, Pres.; R. Miller, D. Euers, B. Thompson, C. Shroll; *ROW 2:* C. Vizanko, J. Dishnow, D. VanAbel, J. Ep-

ley, D. Anderson, A. Moore, R. Martindale, R. Seitler; *ROW 3:* B. Taylor, C. Lucchest, D. Althouse, N. Robb.

## VARSITY CLUB

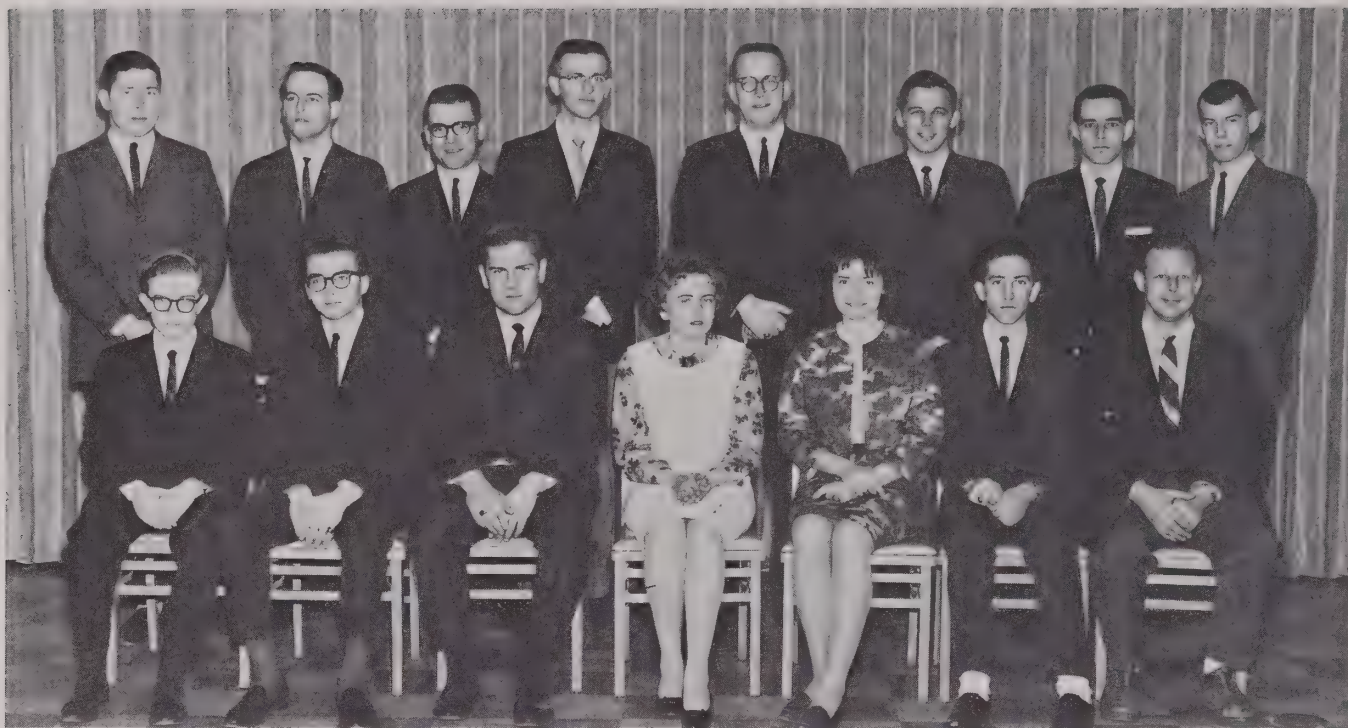
The primary function of the Varsity Club is to unite all varsity letter winners into an organized body to promote interest and activity in all sports at Michigan Tech. This is done through such efforts as sponsoring Homecoming—one of the University's most well attended functions.

*ROW 1:* B. Manthey, J. Ahola, B. Hausser, J. Kellogg, D. King, J. Schmidt, D. Kriebel, R. Rusing; *ROW 2:* D. Gray, D. Johnson, A. Intermill, D. Thomas, B. Vasilauskas, D.

Draper, J. Balsiger, D. Elliott, P. Butkovich; *ROW 3:* G. Inman, B. Wozniak, D. Kaminski, S. Hutson, D. Wick, J. Allen.







*YOUNG REPUBLICANS ROW 1:* B. Boyd, V. Davis, G. Leeftink, Pres.; D. Aho, C. Pidgeon, J. Liebmann, H. Meeks.

*ROW 2:* R. Molloy, H. Askin, D. Hoffman, B. Hoornstra, J. Brack, J. Whitney, B. Link, D. Van Wulfen.

## YOUNG REPUBLICANS

The Young Republicans Club provides a valuable outlet for persons with political inclinations. The valuable experience obtained through various political activities handled in conjunction with the Republican Party can provide an excellent springboard for an aspiring politician.

## YOUNG DEMOCRATS

The Y.D.'s, new on campus this fall, were organized for the purpose of increasing student interest in political affairs and aiding the Houghton County Democratic Committee. Mr. McKillop and Professor DelliQuadri are the faculty advisors.

*YOUNG DEMOCRATS ROW 1:* E. Dzakowic, M. Niva, J. MacKillop, P. Anthony, D. Metcalf. *ROW 2:* P. Salo, J. Tripp, R. Laitinen W. Riegel, A. Peterson.







*SAE ROW 1:* J. Cheshire, R. DeGroot, K. Huotari, P. Sandretto, R. Boughner, K. Knudsen, N. Houvener, W. Worman.  
*ROW 2:* D. Hintsala, W. Hodge, D. Roos, W. Lindell, R. John-

ston, D. Jarvi, J. Seppala. *ROW 3:* L. Andrus, D. Johnston, D. Underhill, T. Schoepel, D. Barkel, J. Peppel.

## SAE

The Society of Automotive Engineers, organized in 1951 on this campus, has as its aims, to promote the arts and sciences and engineering practices connected with the design, construction and utilization of automobile apparatus.

## SAM

The local student chapter of the Society for Advancement of Management is organized to recognize academic achievement by Junior and Senior Class members in Business Administration at Michigan Technological University.

The chapter attempts, through discussion and other appropriate means, to conduct and promote study and understanding of the social, psychological and economic implications of scientific principles of modern business.

*SAM ROW 1:* T. Korpi, R. Piiparinen, R. Johnson, J. Brack, P. McVittie, O. Kingsbury, C. DelliQuadri. *ROW 2:* C. Neff,

J. Makinen, R. Sullivan, D. Wennechuk, J. MacBride, J. Grenfell, B. Olendorf.







*ARMY RIFLE TEAM ROW 1: B. Bucholtz, J. Wooll, D. Collins, J. Siddons. ROW 2: A. Pressley, M. Reith, D. Grisham, D. Pfuelher, P. Rezin, D. Pope, H. Emery.*

## ARMY RIFLE TEAM

## ARMY DRILL TEAM

*MacARTHUR'S ENGINEERS DRILL TEAM ROW 1: G. Bradley, K. Kessler, R. Johnson, P. Terrian, C. Baldwin, D. Pelligrini, G. Slade. ROW 2: E. Robinson, W. Steinke, W. Richards, D. Smith, J. McGrath, J. Standish.*







*AIR FORCE RIFLE TEAM ROW 1:* H. Belcher, V. Rukstalis, D. Dezzi, C. Bowers, D. French, W. Riegel. *ROW 2:* M. Cox, R. Lindemann, L. Ryden, D. Gaylord, J. Sundstrom, L. House, Sgt. Larson.

## AIR FORCE RIFLE TEAM

## AIR FORCE DRILL TEAM

*AIR FORCE DRILL ROW 1:* G. Schroeder, M. Fogelberg, R. Schraeder *ROW 2:* M. Fredrick, J. Beaudry, R. Collins, R. Stierna *ROW 3:* T. Slocum, R. Boardway, D.

Bartley, J. Burgess *ROW 4:* C. Harris, A. Lorenzi, T. Kisinger, L. Cavender *ROW 5:* J. Zaikowski, C. Reik, F. Manty, R. Ungeran *ROW 6:* S. Wright.







WADSWORTH HALL

## RESIDENCE HALLS

Mr. Mestnik, Mr. Hibler, Mrs. Stillion, Mr. Bryant, Mr. Stillion, Resident Counsellors.





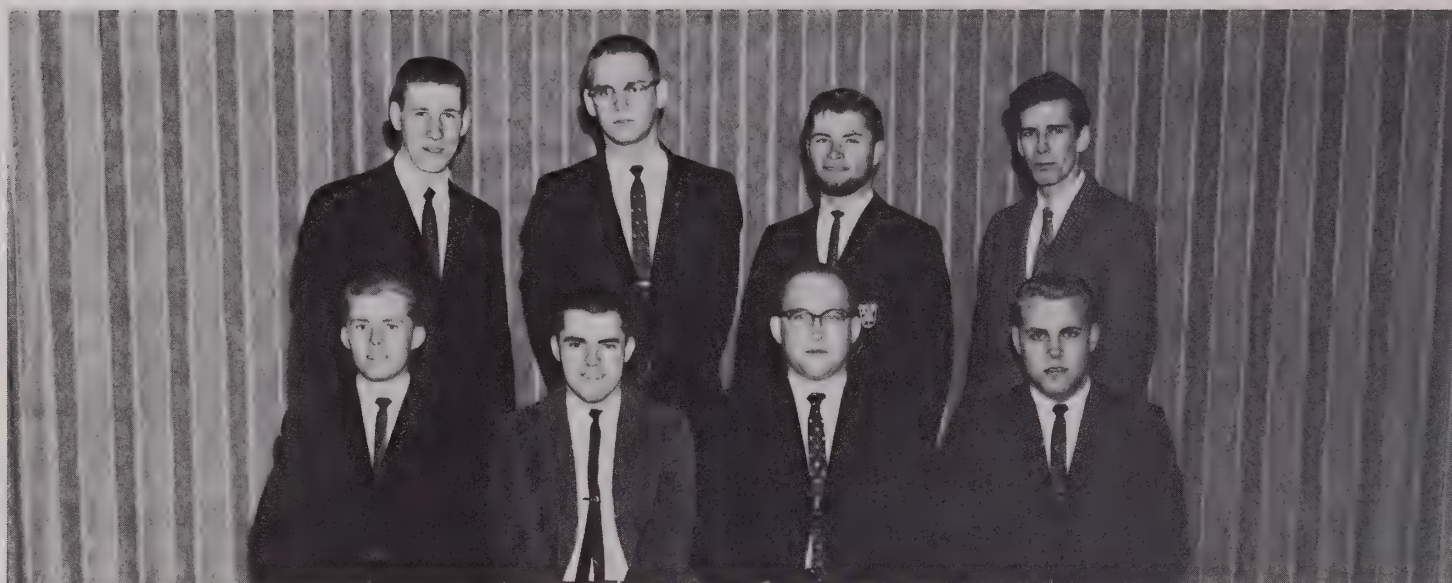


Mr. Leonard, Assistant Manager, Residence Halls, Mr. Torgeson, Manager, Residence Halls,  
Mr. Killmar, Assistant Manager, Residence Halls.

## DOUGLASS HOUGHTON HALL







*SEATED:* Ron Murphy, Vince Gallagher, William Roberts, Dennis McDonough. *STANDING:* Arie Korving, James Roe, Roger Raehl, James Nicholls, Pres.

## DHH CLUB

## FIRST FLOOR EAST

*FIRST ROW:* K. Naison, W. Ford, S. Erickson, E. Lehtinen, D. Hoover, W. Loder, J. Lapinoja, C. Bowling, P. Dohms. *SECOND ROW:* T. Anderson, J. Bullock, V. Lapinoja, C. Dahl, J. Avery, T. Wheatley, J. Malloch, D. McAlpine. *THIRD ROW:* J. Truax,

W. Donnithorne, R. Haberstich, H. Kellman, J. Hyer, H. Sergott, E. Jensen, J. Bray, D. Lauts. *FOURTH ROW:* W. Keller, R. Loutzenhiser, M. Gulick, R. Newland, D. Thrasher, E. McMaster, V. Orlando.







*FIRST ROW:* G. Maki, B. Bucholt, T. Mutton, A. Ploucha, L. Hovey, G. Snider, R. Scialdo, J. Conigho, S. Weiss. *SECOND ROW:* K. Chandler, J. Bolthouse, T. Poskie, B. Carpenedo, G. Paradise, B. Carter, G. Stobbelach, J. Gunn, M. Muhtarno, J. Budnick, H. Johnson. *THIRD ROW:* N. Winters, R. Jones, G.

Olson, C. Reik, D. Stephison, T. Urban, D. McManus, T. Neznanski, G. Cain, B. Wilson. *FOURTH ROW:* W. Root, D. Wick, K. Koschnitzke, D. McDonough, O. Vanderbilt, J. Heiam, R. Duffek, D. Scharmen, J. Haycock, G. Ptak, J. Hoefflein, R. Franz, C. Troy.

## SECOND FLOOR EAST

## SECOND FLOOR WEST

*FIRST ROW:* O. Ormsby, G. Johnson, J. Schaefer, V. Gallagher, F. Savory, A. Korving, C. Stahl, M. Scott, D. Grisham. *SECOND ROW:* C. Arlt, D. Druif, J. Harju, B. Dircks, G. Richter, M. Lawrence, R. Tardy, J. Ball, E. Green. *THIRD ROW:* J. Johnston, S.

Van Buren, W. Heglund, T. Freeman, G. Rhodes, F. Andros, D. Schultz, D. Ramsvig, C. Totzke, R. Tuthill. *FOURTH ROW:* M. Gustafson, J. Roe, D. Strahl, J. Gibson, S. Johnson, J. Nicholls, G. Melbardis, R. Ashcraft, J. Kingsbury.







*FIRST ROW*, left: C. Bennett, J. Bronman, J. Griffin, D. Bolger, T. Loughran, J. Helander, A. Robinson, J. Morden, W. Humy. *SECOND ROW*: D. Chenier, L. Lisciotto, R. Marcell, M. Doran, R. Tonelli, J. Klass, T. Hill, J. Kantor, D. Mahy. *THIRD ROW*:

A. Knivila, J. Plaistow, C. Whitecotton, C. Reynolds, F. Stimpson, D. Dietz, J. Nelson, R. Fullarton, L. Cavender. *FOURTH ROW*: J. Lindell, J. Lowry, J. Trethewey, A. Goldsworthy, D. Matz, L. Vicklund, J. Horton, R. Snyder.

## SECOND FLOOR CENTER

## THIRD FLOOR EAST

*FIRST ROW*, left: D. Arial, W. Corbin, R. Pelto, T. Weston, J. Jackson, J. Kampe, W. Jannausch, P. Horvath, T. Finn. *SECOND ROW*: A. Kampe, A. Nelson, R. Ball, R. Murphy, D. Barkel, N. Houvener, D. Anderson, J. Stempihar, B. Waltz, D. Hagerl. *THIRD ROW*: E. Jones, E. Pound, W. Phillips, F. Manty, G.

Anderson, J. Caterino, T. Porter, D. Beckner, J. Pfaendtner, W. Gates. *FOURTH ROW*: D. Bultema, C. Thom, C. Franke, M. Glover, D. Althouse, J. Cromie, J. Shustrom, J. Hughes, M. Greenlee, C. Schmidt.







*FIRST ROW:* L. Ramia, L. Kuhn, L. Piiparinen, R. Raehl, A. Keppen, H. Dewey, L. Warble, R. Nelson, H. Billings. *SECOND ROW:* H. Bradford, C. Gossen, F. Mitchell, T. Freeman, J. McGrath, D. Metcalf, J. Wolbrink. *THIRD ROW:* R. Etelamaki,

H. Cleveland, J. Siddons, T. Shannon, M. Bell, M. Healy, P. Beebe, J. Torgerson. *FOURTH ROW:* L. Laurich, P. Miller, R. Anderson, B. Hulstrom, L. Gomm, C. Trammel.

## THIRD FLOOR WEST

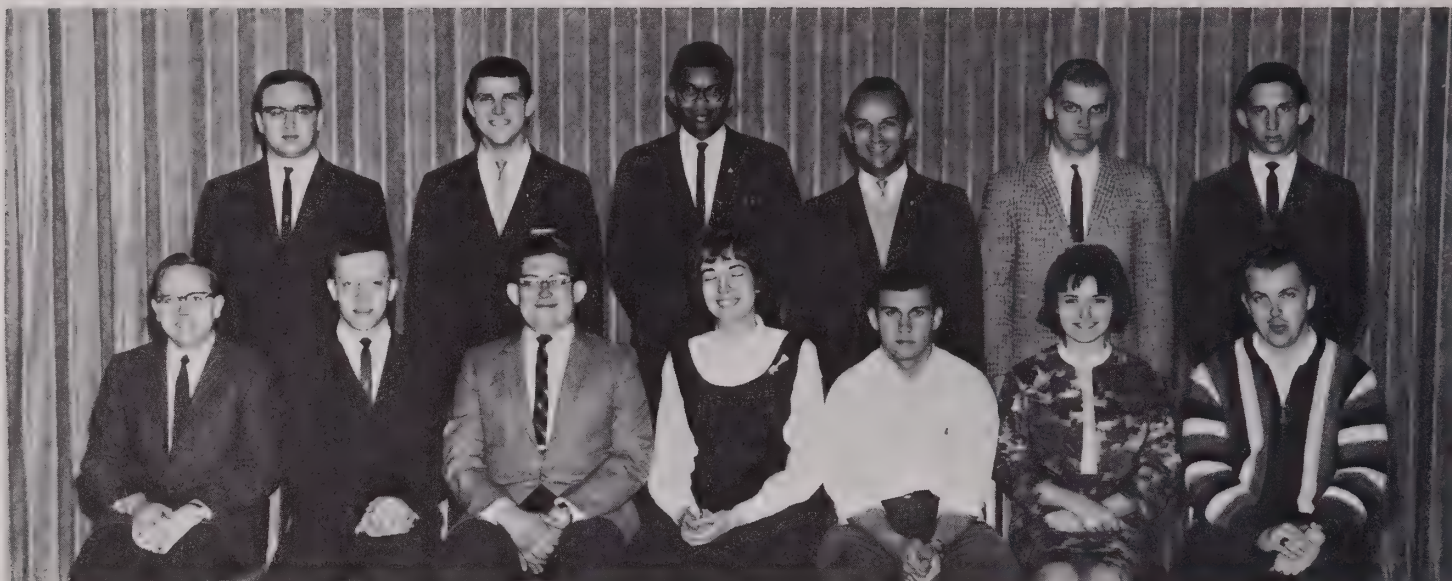
## THIRD FLOOR CENTER

*FIRST ROW:* K. Buchanan, J. Hodges, P. Fernstrum, N. Montgomery, H. Glidden, B. Morden, P. Kronberg, V. Opincak, A. Walter. *SECOND ROW:* D. French, R. Olson, V. Forbush, E. Whitman, R. Williams, J. Murray, D. French, J. Standish.

*THIRD ROW:* B. DeRidder, W. Charter, M. Shoys, G. Matiuk, G. Madden, J. Burnett, J. Burgess, D. Orth, C. Thornton. *FOURTH ROW:* G. Treleven, S. Lockhart, R. Guetschow, D. Barron, D. Holtz.







*FIRST ROW:* R. Jasicki, B. Cox, B. Davis, B. Frick, F. Taylor, Pres., C. Pidgeon, J. Brodhagan. *SECOND ROW:* R. Miller, J. Roman, J. Tyson, W. Kircik, S. Moran, J. Nornberg.

## WADSWORTH HALL ASSOCIATION

## CITADEL

*FIRST ROW:* D. Laird, M. Klimesh, R. Zajac, W. Heinrich, W. Redmond, Pres., P. Eschenauer, P. Pierce, R. Ungeran, T. Vander Heide, C. J. Shroll. *SECOND ROW:* B. Berg, J. McNeil, D. Pfuehler, W. Cox, T. Kroll, D. Farnsworth, F. Hatajack, J. Picucci, R. Risberg. *THIRD ROW:* W. Chicowlas, R. Kadlec, R. Passarella,

E. Strong, D. Toolanen, D. Murray, J. Elliott, L. Lindquist, P. Lynwood. *FOURTH ROW:* F. Vish, J. Peterson, A. Maynard, B. Wozniak, P. Gaines, R. Krell, M. Fuller, L. Kuntz, J. Bartus, J. Grenfell.







*FIRST ROW:* W. Riegel, R. Frank, T. Schuster, Pres., J. Stauter, R. Lindemann, M. Cowles, L. Bolio, W. Talus, M. Raboin, *SECOND ROW:* R. Sudkamp, C. Nelson, R. Winther, E. Elnicky, J. Windemuth, E. Linna, N. Nabbefeld, B. Walton, N. Hough, E.

Atkins. *THIRD ROW:* F. Slama, R. Manninen, L. Goldsmith, J. Bush, M. Cousino, J. Fairchild, L. Schmidt, R. Morgan. *FOURTH ROW:* G. Helms, B. Taylor, W. Bath, J. Dishnow, A. Parker, C. Ahnen, R. Schaffer, F. Moore.

## GAZERS

## KEYSTONE

*FIRST ROW:* H. Hatch, R. Perle, S. Solfis, K. Kuenzer, J. Benzing, B. Luhmann, H. DePriest, R. Makoutz, Pres., J. Aho. *SECOND ROW:* J. Gates, J. Jansen, R. Sosnowski, J. Stindt, G. Whipp, B. Marietta, D. Hansen, T. Ludholz, M. Paquin, J. Porter. *THIRD ROW:* C. Jones, H. Stuehmer, M. Marx, B. Thomas, D.

Asplund, L. Kleisinger, D. Sawyer, L. Brown. *FOURTH ROW:* E. Robinson, D. Johnston, J. Granskog, R. Richter, J. Baker, B. Hayes, J. Winebrener, B. Moshier, A. Mitchell, R. Gundlach, J. Carbine.







*FIRST ROW:* T. Steele, F. Hintsala, P. Matthews, R. Ghastin, T. Moore, E. Brown, Pres., C. Baldwin, D. Oberthur, F. Freberg. *SECOND ROW:* B. Nyberg, B. Martzowka, D. Olson, G. Perry, D. Dezi, M. Anderson, R. Heninger, R. Miller, B. Bokary, C.

Hepner. *THIRD ROW:* G. Johnson, L. Underwood, H. Seppanen, M. Diehl, D. Underhill, R. Carowell, P. Bruce, F. Heaps. *FOURTH ROW:* H. Brenniman, K. White, G. Dorn, D. Weiler, W. Kohel, S. Dembicky.

## ALKA HALL

## GOOD INTENTIONS

*FIRST ROW:* J. Crist, R. Pomazal, G. Oberlander, R. Screbant, D. Sloat, G. Christie, D. Thompson, R. Hicks, A. Mitchell. *SECOND ROW:* D. Savolainen, M. Freuhauf, R. Sherriff, L. Lowell, J. O'Neil, J. Yount, P. Scott. *THIRD ROW:* F. Rollins, L. Burck,

J. Kopecky, M. Frederick, T. Sutter, R. Kadelsik, R. Ingalls, T. Raboin, R. Bauer. *FOURTH ROW:* R. Tucker, D. Graves, M. Biferno, J. Plaistow, B. Hudson, G. Etelamaki, P. Makela, J. Woelfel.







*FIRST ROW:* T. Powers, T. Jardis, T. Smith, R. Phillips, G. Boiten, J. Roman, R. Weberg, C. Brauen, J. Finley, Pres., *SECOND ROW:* C. Dixon, M. Lindlof, R. Rees, R. Niemi, E. Kent, J. Polakowski, B. Paupore, W. Hines, J. Sievers, A. Shah. *THIRD*

*ROW:* D. Corson, C. Sliz, D. Dautermann, D. Wolff, W. Schultz, T. Barron, T. Kilbourn, C. Pelkey. *FOURTH ROW:* T. Slocum, D. Constable, R. Monkewich, M. Greenleaf, L. Schoof, A. Klug, T. Keljo, P. Desai.

## KYBO

## EDEN HOUSE

*FIRST ROW:* W. Richards, D. Cassel, W. Turcotte, F. Prusak, G. Slade, T. Winkler, C. Zeigler, N. Gruber, D. Collins. *SECOND ROW:* W. Ross, J. Sigler, P. Brackman, R. Martin, R. Hardy, D. Harris, A. Chaprnka, D. LaDue, S. Wright, J. Zaikowski. *THIRD ROW:* E. Mahringer, J. Brodhagen, R. Jensen, W. Piippo, J.

Unmuth, J. Caswell, L. Zestrou, J. Dziuban, G. Millsaps. *FOURTH ROW:* C. Wilmot, R. Montambo, J. Mattison, D. Aho, J. Pearson, R. Mennega, P. Timmreck, D. McTavish, R. Gordon, P. Chiladakis.







*FIRST ROW:* B. Bernard, G. Sundquist, M. Young, R. Jasicki, R. Murray, Pres., D. Wills, D. Ingersoll, P. Wilden, B. Goisert. *SECOND ROW:* G. Baiel, D. Hill, D. Albers, K. Goodall, D. Matak, D. Lindberg, K. Robertson, J. Larsen, J. Hill, J. Epley. *THIRD*

*ROW:* D. Johnson, D. Gierke, C. Maki, E. Johnstad, S. Garrison, K. Karn, C. Blick, K. Hunt, R. Young. *FOURTH ROW:* J. Johnson, C. Locey, C. Vizanko, F. Auernhammer, W. Neimi, D. Tripp, R. Steinmeier, J. Lowell, V. Jarui.

## ARTIC ATTIC

## KNIGHT HOUSE

*FIRST ROW:* D. Atherton, T. Gilbert, R. Anderson, Pres., J. Smith, M. McDonnell, R. Bunce, P. Francisco, M. Oldt, R. Humphrey, *SECOND ROW:* W. Belisle, B. Conner, S. Piwtorak, J. Stover, D. Buszka, R. Hazen, D. Caesar, S. Beard, J. Rector. *THIRD ROW:* B. VanBoskirk, T. Eselgroth, D. Lang, H. Oliva, B. Berglund, J. Cantwell, R. Caldwell, E. Horvath, G. Krueger.

*FOURTH ROW:* D. Cote, D. Haddrill, J. Brahler, J. Crouse, J. Campbell, B. Lovejoy, C. Campbell, C. Gaskill, G. VerDuin, R. Rothschild. *FIFTH ROW:* E. Martinson, R. Flanders, L. Warren, G. Zitko, E. Finan, B. Trimble, P. Talford, F. Clark, K. Brayman, P. Polus, T. Saunders.







*FIRST ROW:* B. Vasilauskas, B. McClintock, W. Gilbert, I. Hall, M. Cramberg, K. Bowman, S. Myers, B. Zubke, J. Foltz. *SECOND ROW:* J. Moore, G. Mikko, R. Chase, R. Taylor, R. Moore, K. Sannar, H. Garn, M. Shea, R. Best, J. Hansen. *THIRD ROW:* D. Schenk, J. Nahan, S. Stroup, D. Hutula, C. Olson, W. Weller,

J. Chomich, B. Toothill, J. Cmar. *FOURTH ROW:* H. Howes, J. Nornberg, R. Seitger, C. Stafford, D. Smith, D. Caudell, T. Watson, G. Milroy, B. Wilson. *FIFTH ROW:* D. Goodman, J. Wildberg, S. Bizyk, R. Gau, B. Galiarni, J. Cetnar.

## EXCELLO

## HOUSE OF LORDS

*FIRST ROW:* D. Strehl, G. Trombley, W. Roth, M. Mason, J. Ahnefeldt, Pres., K. Krapohl, V. Patel, G. Hamilton, R. Agarwal. *SECOND ROW:* G. Lister, E. Riske, B. Courim, J. Litsenberger, J. Stroup, D. Bolyen, D. Hillier, M. Schlereth, J. Hill, R. Berndt, B. Patel. *THIRD ROW:* C. Mock, P. Gerritsen, K. Cole, T.

Schmidt, D. Davey, F. Fuller, M. Voelter, K. Kovac, W. Kive, L. Sewell. *FOURTH ROW:* B. Girish, T. Peterson, R. Boardway, J. Miculs, M. Bortak, J. Williamson, M. Groff, M. Gourdie, J. D. Hager. *FIFTH ROW:* D. Richards, J. Groat, B. Osten, P. Alasimi, M. Pray, D. Govednik, A. Lundberg, B. Kelly, B. Strecker.







*FIRST ROW:* D. Rogers, R. Mellon, D. Omernik, Pres., D. Johnson, E. Valek, B. Krueger, N. DeVries, R. Likus, R. Kubicki. *SECOND ROW:* R. Wager, F. Turek, E. Slade, O. Koch, S. Zdziarski, R. Snell, B. Schmidt, D. Buck, L. Schab, B. Sethi. *THIRD ROW:* H. Vanderploeg, J. Barancin, P. Giragosian, M.

Fehniger, G. Pashley, T. Spitler, B. Dickey, G. Cummings, G. Nielsen, C. Scheffner. *FOURTH ROW:* C. Zapffe, R. Caldwell, T. Stewart, W. Hamilton, W. Wood, T. Olsen, J. Sturos, M. Helminiak, L. House, J. Erickson.

## LA MAISON DE GAIETE

## UNQUENCHABLES

*FIRST ROW:* B. Collins, B. Livingston, W. Griffin, D. Pehrson, D. Hilborn, R. Martindale, R. Jenkins, G. Tollefsen. *SECOND ROW:* K. Kessler, Pres., A. DeGroot, L. Kaiser, S. Kansal, W.

Owen, J. Peders, K. Strawe. *THIRD ROW:* T. Wahl, R. Moore, T. Harrold, G. Beckmann, T. Joynt, J. Krause, W. Granger, C. Woodward, R. Kemmer.







*FIRST ROW:* R. Castle, R. Hill, P. Roberts, I. Drost, L. Merrit, Pres., B. Wass, J. Balsiger, J. Simmons, T. Schoepel. *SECOND ROW:* R. Elliott, R. Kudwa, R. Davis, R. White, R. Boughner, T. Brodine, P. Kehoe, J. Johnson. *THIRD ROW:* A. Lorenzi, N.

Foreman, L. Darnell, W. Johns, T. Palarz, W. Virta, M. Anderson, G. Peck. *FOURTH ROW:* J. Zukowski, J. Olson, J. Sigwart, B. Preslan, G. Weaver, M. Nordbeck, D. Kansal, S. Zitka, J. Fekete.

## SLEEPY HOLLOW

## SUBTERRAINIA

*FIRST ROW:* J. Manninen, M. Lulich, B. Oldmixon, G. Bartsch, B. Truckner, Pres., D. Welty, R. Hooper, D. Hetrick, G. Merits. *SECOND ROW:* R. Ahola, M. Day, D. Hyrkas, R. Honkonen, J.

McFall, J. Kronschnabel, G. Weirauch, H. Peach, S. MacDonald. *THIRD ROW:* P. Rezin, J. Banach, W. Vogt, P. Lenahan, J. Rose, J. Kopera, B. Young, J. Maldups, T. Lypka.







*FIRST ROW:* C. Brown, C. Frick, B. Frick, K. Antolich, V. Allen, C. Pidgeon, B. McCarthy, S. Winchester, B. Benna. *SECOND ROW:* L. Panula, A. Foley, E. DeDryuer, S. Schaefer, J. Schwen- sen, D. Dailey, P. Dunbar, D. Aho, M. Niva. *THIRD ROW:* P.

Mumford, S. Hannah, C. Zirnhelt, L. Casteel, S. Ruuspakka, J. Potter, J. Brunett, P. Eddy, Pres., K. Rowbottom. *FOURTH ROW:* M. Zakrzewsky, C. Rogers, B. Perlich, P. Trettel, P. Zickus, P. Anthony.

## FIRE AND ICE

## WINDSOR

*FIRST ROW:* G. Betcher, T. Morrison, R. Schwarzkopf, B. Davis, L. Grunbey, Pres., P. Turovaara, J. Kraemer, T. Bliss, W. Jones. *SECOND ROW:* L. Brown, H. Adi, T. Constantino, D. Foy, S. Arvind, S. Ricks, R. Rouse, L. Mellstram. *THIRD ROW:* E.

Perry, T. Diener, J. Leonard, D. Bloomfield, J. Sweers, D. Vance, W. Waller. *FOURTH ROW:* B. Harris, J. Hicks, D. Jones, P. Needles, J. Linderman, C. Hill, D. Filley.







*FIRST ROW:* A. Moore, P. Guizzetti, L. King, S. Moran, D. Helsel, Pres., D. Souten, T. Best. *SECOND ROW:* V. Sompura, R. Stierna, S. Majstorovic, D. Kurir, D. Huebner, D. Farber, H. Juntila, D. Elsholz, A. Al-Muti, B. Mukondj. *THIRD ROW:* P. Whit-

ton, J. Myers, B. Weckler, K. Stoll, A. Shroff, M. Ketola, M. Mc-Daid, A. Hulter, P. Lewis, K. Grahl. *FOURTH ROW:* C. Kauranen, D. Kent, C. Jacobett, D. Thomas, K. Calder, S. Hutson.

## OREAD'S PARADISE

## STAGGER INN

*FIRST ROW:* R. Weibel, K. Rupp, J. Schomer, J. Rich, K. Brown, Pres., W. Hunter, R. Bentalage, C. Carlyle, D. Roland. *SECOND ROW:* S. Bhonsle, J. Olson, D. Draper, J. Archibald, T. Wiljanen, D. Meissner, G. Branam, D. Passmore, R. Pepper, R. Milesk. *THIRD ROW:* J. Rhodea, J. Bamford, N. Ball, B. Branch,

M. Russell, M. Ferris, J. Kleinhans, E. Moerdyk, M. Philipp, L. Kangas. *FOURTH ROW:* G. Mallory, R. Bureau, L. Ryden, V. Myles, J. Nearing, J. Jankila, D. Streiffert, L. Skinner, F. Ruppert, W. Peterson, J. Sikora.







*FIRST ROW:* D. Huebner, D. Tachick, D. Smilonich, S. Zimmer, S. Johnson, J. Ressler, H. Hueckstaedt, O. Kingsbury, D. Basigkow. *SECOND ROW:* D. Ng, D. Jensen, B. Keist, T. Trefzer, J. J. Ross, R. Sabourin, J. Barton, L. Carr, B. Guarnera, E. Koski.

*THIRD ROW:* R. Gable, W. Bered, B. Farsky, R. Hughes, D. Taulu, D. Dodge, J. Basham, N. Hurtubise, R. Lovell. *FOURTH ROW:* D. Day, D. Benyas, G. Frye, W. Wong, G. Brazo, M. Eyster, B. Currey, P. DeWitt, A. Granader, J. Horn, J. Larsen.

## TOMBSTONE TERRITORY

## PHROZEN PHIFTH

*FIRST ROW:* E. Folga, E. Liezeit, D. Weill, D. Dunn, T. Plaxton, D. Yoder, J. Schmidt, Pres., J. Quimby, M. Bell. *SECOND ROW:* S. Slosson, J. Sanders, C. Naumann, C. Rounds, J. Willis, K. Shenefiel, Y. Leung, K. Allen, J. Svinicki, B. Arnold. *THIRD ROW:* F. Taylor, G. Wierenga, D. Merriman, H. Bixby, D. Carl-

son, M. Curtis, J. Bruinooge, W. Wythe, H. Sayeeduddin, V. Rukstalis, B. Christoff. *FOURTH ROW:* R. Tiura, G. Anderson, L. Stolte, M. Rodenberg, G. Reichelt, W. Binroth, D. Pozniak, D. Bessinger, L. Hein, B. Barkalow.







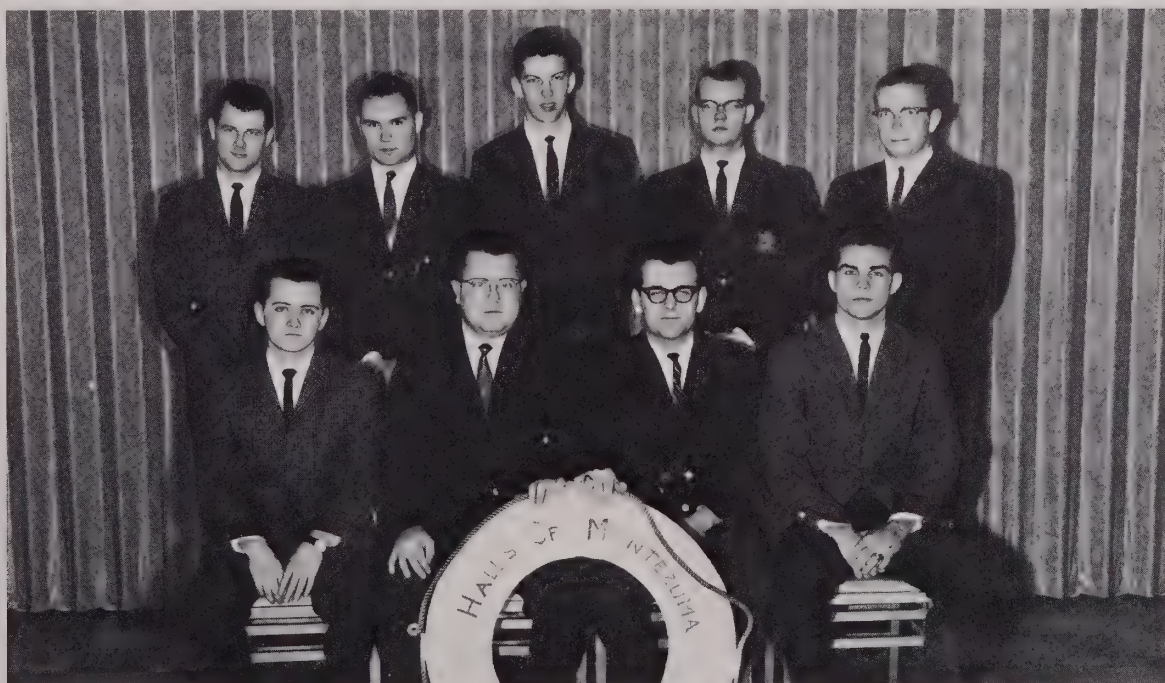
*FIRST ROW:* P. Heintz, J. Rozsa, R. Woolnough, D. Mathews, J. Pharis, Pres., J. Tyson, A. Wilks, R. Romain, R. Hammar. *SECOND ROW:* N. Izumi, J. Scarbrough, P. Shallow, R. Kovach, R. Crane, D. Casimir, J. Liebmann, J. McAuliffe, R. Nigh. *THIRD*

*ROW:* T. Glispin, D. Powell, T. Kisinger, E. Taschner, E. Temp-  
lin, S. Overton, R. Grace, A. Hochstein, G. Parker. *FOURTH*  
*ROW:* R. Hughes, D. Small, A. Jackson, J. Brauer, J. Justice, H.  
Bichler, J. Ferencz, A. Elliott, W. Compeau, T. Bacon, J. Burnett.

## SIGMA NU OMEGA

## HALLS OF MONTEZUMA

*FIRST ROW:* J. Carless, W. Overfield, R. Gancasz, R. Biernat. *SECOND ROW:* A. Brunet.  
R. Piira, R. Swanson, R. Wilhelm, H. Cleveland.







Left to right: *SEATED*: J. Sievers, D. Jingles, L. Andrus, J. Fraser, P. Van Raalte, V. Willson; *STANDING*: A. Sykes, C. Pierson, K.

Carpenter, W. Gilbert, T. Ceasar, J. Hauck, M. Smith, M. Weatherly, M. Bergacker, R. Kesti.

Vernon Willson, President



## WESLEY HOUSE

The Wesley House is one of two religious residence houses at Michigan Tech. The Wesley House is Methodist, and is composed primarily of members of the Wesley Foundation.

The members of the House have taken active part in Winter Carnival activities as well as intramural sports during the past year.





Left to right: *SITTING*: B. DuBay, G. Paridise, J. Winnen, T. Healy, D. Crannell, B. Sajdak, B. Welch, B. Snowden, D. Baxter; *STANDING*: J. RotiRoti, J. Woeffel, D. Stevenson, J. Ralleigh,

B. Wieberg, D. McMannas, G. Phillips, D. Honkenen, W. Herwig, T. Anderson, L. Becks, F. Newcombe, T. Urban, D. Lang, G. Roeney, B. Stephic.

Tom Healy, President

## NEWMAN HOUSE

The Newman House is the center of activities for the Newman Club on the Michigan Tech campus. Always accessible to students is a large reading room with a large assortment of good pamphlets and books.

Maintenance of the house, in most cases, is carried out by the residents of the house, with added help given by other Newman Club members on or about campus. The encouragement to carry out the "details" is ably provided by the house steward. With continued cooperation between the Club and House, the coming year should prove bountiful in both the religious and social functions.





# SENIORS

*"... All the world's a stage,  
And all the men and women merely players.  
They have their exits and their entrances,  
And one man in his time plays many parts ..."*

The freshman in his black and gold beanie, plays a minor role. A sophomore blazer adds stature and dignity to one's part. Junior rings carry a promise of leading roles. And the diploma in the hand of a senior tells him that he has truly starred in his role as a student.

M

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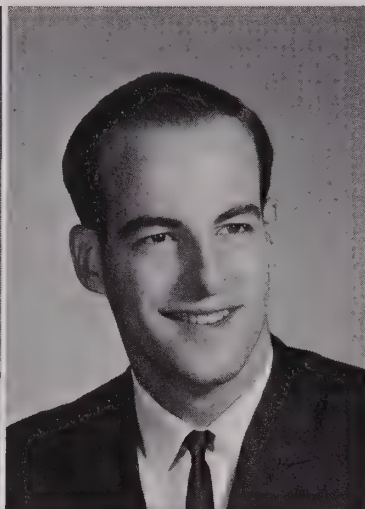
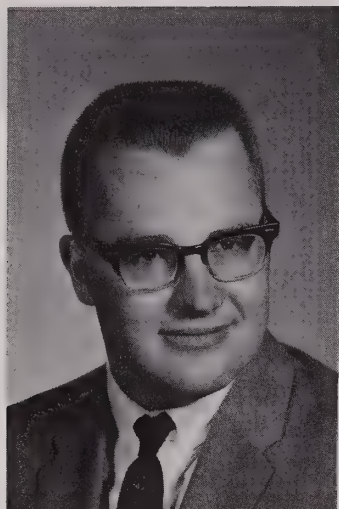








# WHO'S WHO IN AMERICAN

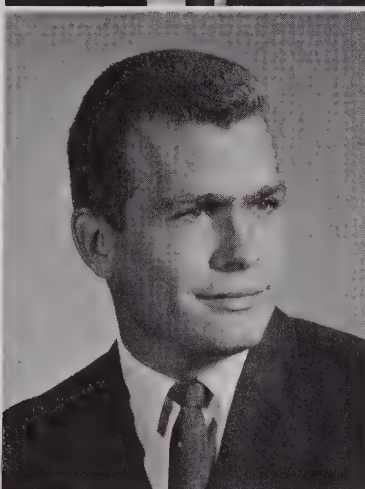
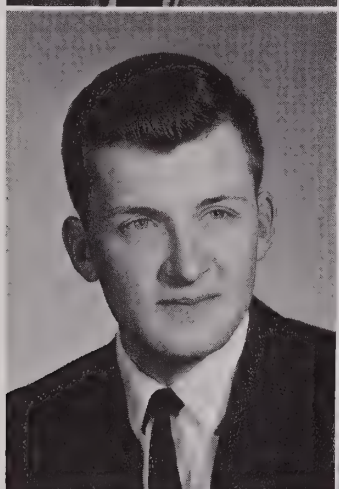


ALEXANDER, JOHN B., Kingsford, Mich.

Electrical Engineering; I.E.E.E.; Tau Beta Pi; Sigma Phi Epsilon.

ASKIN, HARRY, JR.; Marshall, Michigan

Mechanical Engineering; Blue Key, Pres.; Winter Carnival Chairman; MT Lode; IFA Representative; Phi Kappa Tau; Daniell Hts. Council; IAESTE, exchange student.

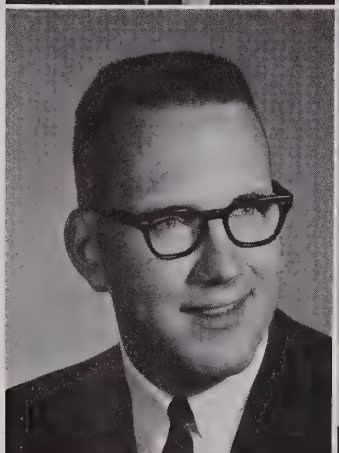


BAIN, DOUGLAS A., Trumbull, Connecticut

Metallurgical Engineering; Glee Club; MacArther's Engineers Drill Team; S.A.M.E.; A.S.M.; Tri Beta; Alpha Sigma Mu; Tau Beta Pi; Phi Kappa Phi.

BAUMAN, GARY, Calgary, Alberta, Can.

Business Administration; Varsity Hockey; Varsity Club.



BRACK, JOHN LAHMAN, JR., Grandville, Mich.

Business Administration; Chief Justice, Student Judiciary; Accounting Club, Pres.; S.A.M., Vice-Pres.; Lode; Young Republicans; Inter-Varsity Christian Fellowship.

BRUNETT, JILANN O., Grand Rapids, Mich.

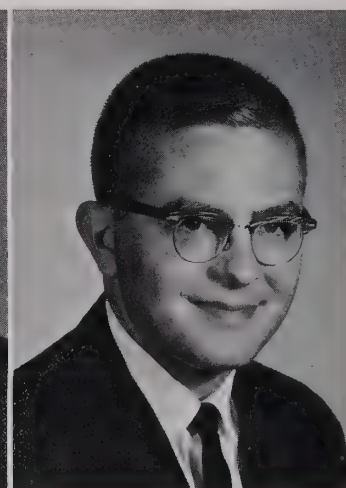
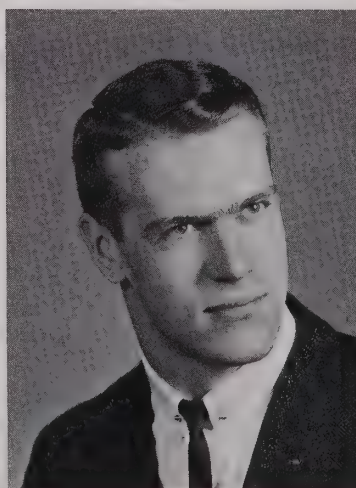
Geological Engineering; Varsity Rifle Team, Captain; A.I.M.E.; A.W.S.; Phi Lambda Beta; Varsity Club.

CHERMAK, KEN, Manitowoc, Wisconsin

Mechanical Engineering; Kappa Delta Psi; Varsity Club, Pres., Treas.; Varsity Football, Capt.; Track; Wrestling, Mgr.; Ski Club; A.I.M.E.; Sophomore Class Vice Pres.; Homecoming Chairman; Interfraternity Council.

CLINE, JOHN, Saginaw, Michigan

Metallurgical Engineering; Pres. Junior Class; Blue Key, Vice Pres.; Student Council; Phi Kappa Tau, Treas.; Alpha Sigma Mu, Pres.; Tau Beta Pi; Sigma Gamma Epsilon; Phi Eta Sigma; Phi Kappa Phi.





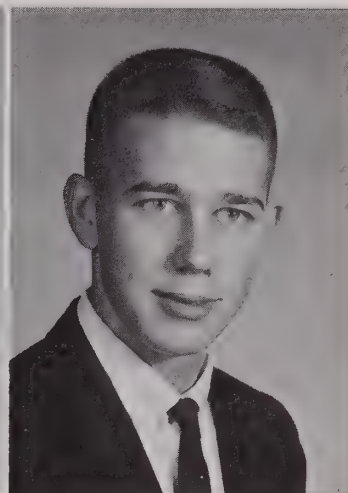
# COLLEGES AND UNIVERSITIES

DAVIS, VICTOR AL, JR., Walled Lake, Mich.

Mechanical Engineering; Phi Eta Sigma; Tau Beta Pi; Blue Key; Treas.; Phi Kappa Phi; Burlington Liar's Club.

DRAKE, JOHN L., Houghton, Michigan

Mechanical Engineering; Blue Key; Tau Beta Pi; Independents, Pres.; Intramural Bowling; Who's Who Among Students.



FULLER, BRENT D., Yonkers, New York

Geophysical Engineering; Student Council, Pres.; Blue Key, Sec.; Tau Beta Pi; Sigma Gamma Epsilon; Phi Eta Sigma; People-to-People; Deans' List; Who's Who in American Colleges and Universities; Chairman Wadsworth Hall Scholastic Committee.

GAST, LARRY, Tilleda, Wisc.

Electrical Engineering; Student Council; Keweenaw, Business Mgr.; Tau Beta Pi; Phi Eta Sigma; Delta Sigma Phi; Blue Key; Senior Class President; LSA, Board of Publications; Phi Kappa Phi; Eta Kappa Nu.

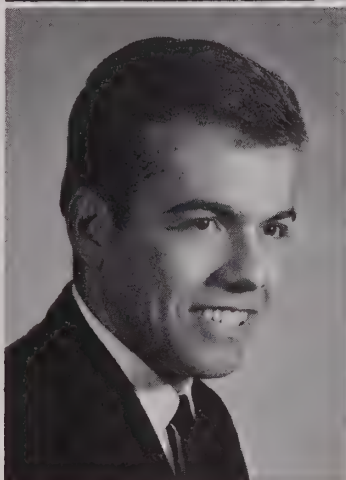


GROENEVELD, THOMAS PAUL, Muskegon, Mich.

Metallurgical Engineering; Tau Beta Pi; Blue Key; Alpha Phi Omega; Phi Kappa Tau, Pres.; Alpha Sigma Mu; Student Council; A.S.M.; I.F.A.

ELLIOTT, DAVID C., Ovid, Michigan

Forestry; Kappa Delta Psi; Varsity Club; Forestry Club; Student Council; Blue Key; Varsity Wrestling.



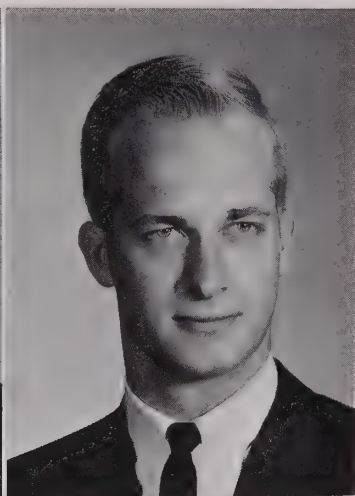
GUSTAFSON, MICHAEL, Ironwood, Mich.

Electrical Engineering; Theta Tau; Student Council; Blue Key. HARMS, HERMAN PAUL, JR., Holland, Mich.

Business Administration; Chief Justice of Student Judiciary; Sigma Rho; I.R.E.; Ski Club.

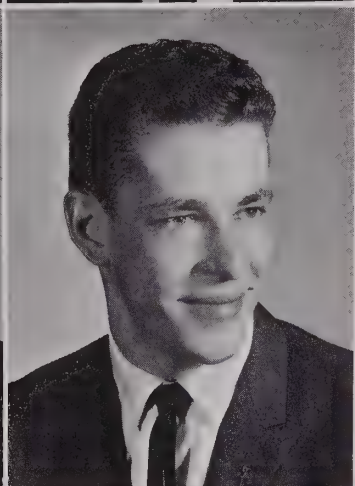


# WHO'S WHO IN AMERICAN



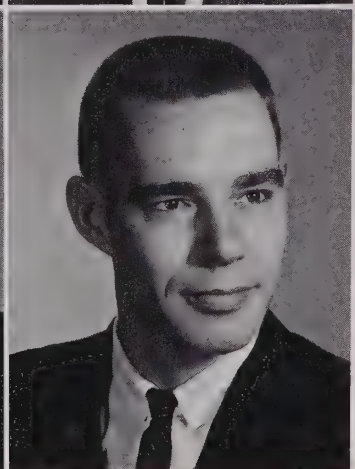
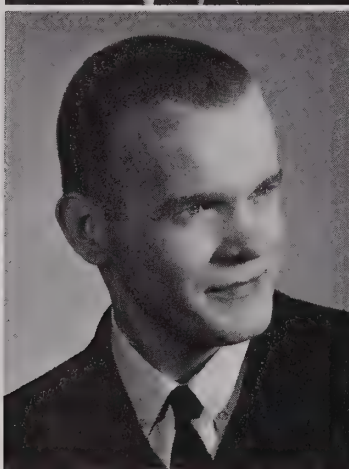
HOFFMAN, DANIEL J., Manitowoc, Wisc.  
Civil Engineering; Kappa Delta Psi, Vice Pres. & Sec.; I.F.A., Pres.; Blue Key; Chi Epsilon; A.S.C.E.; Whos' Who Among Students.

KAUPPILA, WALTER ERIC, Baraga, Mich.  
Physics; A.I.P.; Blue Key; Independents; Phi Eta Sigma.



KOK, KENNETH, Grand Rapids, Michigan  
Chemistry; Lode, Sports Editor, News Editor, Associate Editor; MCPA Board; A.C.S.; A.S.M.E., DHH Dorm Council; Varsity Tennis.

KONWINSKI, JOSEPH PETER, Hillman, Mich.  
Mechanical Engineering; Phi Eta Sigma; Dean's List; Honors Convocation; Dorm Government; Intramural Sports; Intramural Manager; Tau Beta Pi; Theta Tau; Blue Key; Westinghouse Electric Scholarship; S.A.E.; Newman Club.



LAWSON, GERALD P., Detroit, Michigan  
Electrical Engineering; Tau Beta Pi; Phi Eta Sigma, Pres.; Intramural Hockey.

LINK, BRUCE LEE, Flint, Michigan  
Mechanical Engineering; Student Judiciary; Young Republican Club, Pres.; People-to-People Program, Chairman; A.S.M.E.; Blue Key; Tau Beta Pi.

MASSEY, WILLIAM JAMES, Birmingham, Mich.  
Mining Engineering; Blue Key; Sigma Gamma Epsilon, Pres.; Varsity Basketball; Phi Kappa Tau; Senior Class Treasurer; Intramural Board.

MILLER, RICHARD A., Neenah, Wisc.  
Metallurgical Engineering; Kappa Delta Psi; Varsity Club, Vice Pres.; Football; Wrestling; Newman Club; Lode Sportswriter.





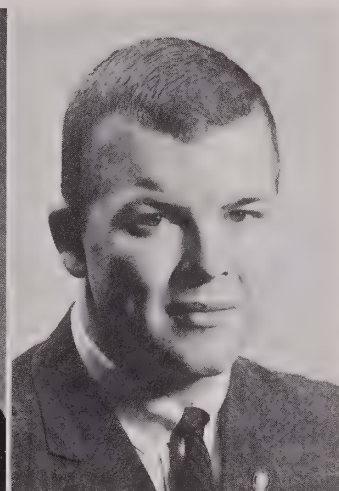
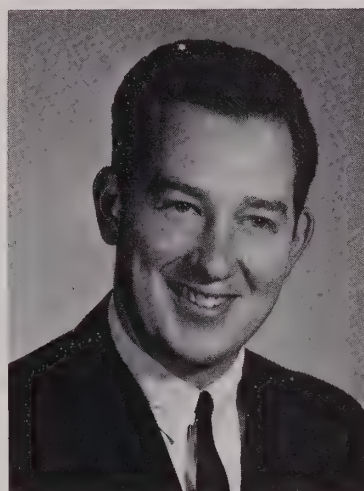
# COLLEGES AND UNIVERSITIES

RUMMER, RICHARD C., Montague, Mich.

Civil Engineering; Alpha Phi Omega; Chi Epsilon; Blue Key; Tau Beta Pi; Memorial Union Board; A.S.C.E.; Varsity Softball.

RUNYON, JAMES R., Midland, Mich.

Chemistry; Who's Who; IAESTE; Delta Sigma Phi; Blue Key; A.C.S., Pres.; Union Board, Vice, Pres.; Michigan Tech Little Theater; Student Instructor.

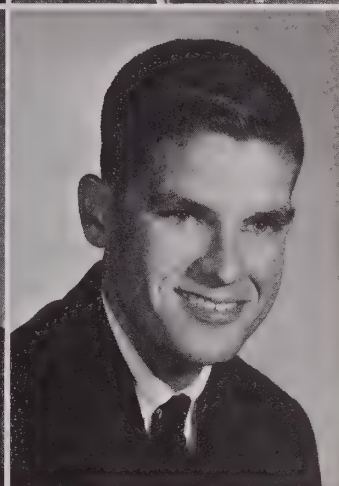
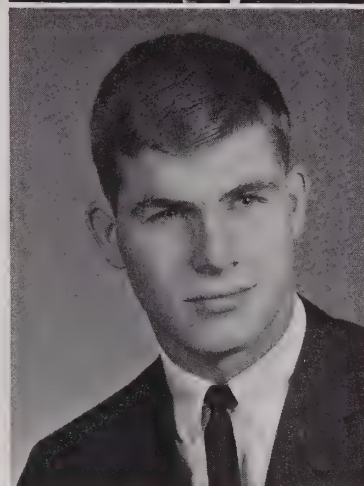


SMITH, BURRIS R., Saginaw, Mich.

Applied Physics; Delta Sigma Phi, Pres.; IFA; Phi Eta Sigma; Lode; Student Council; Blue Key.

THOM, CHARLES G., Birmingham, Mich.

Civil Engineering; Delta Sigma Phi; Blue Key; A.S.C.E.; Student Council.

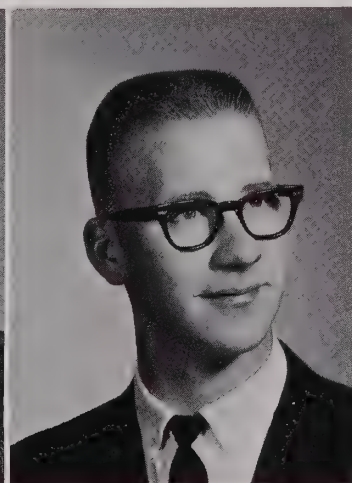
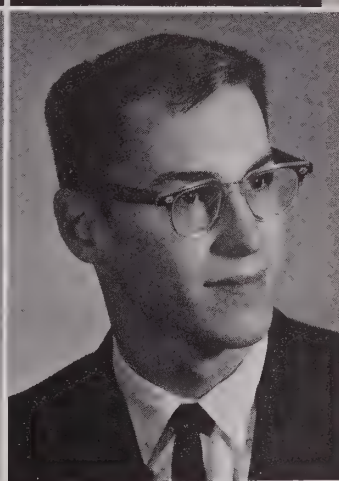
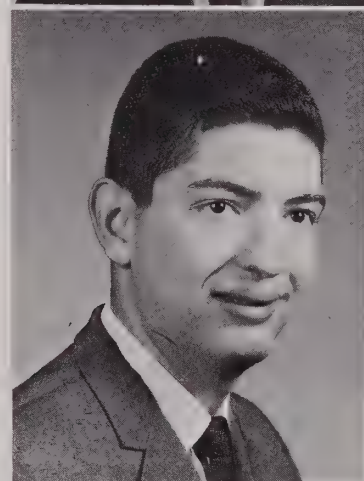


VAN DOMELLEN, JOHN FRANCIS, Falls Church Virginia

Applied Physics; A.I.P.; Ski Club; A.F.R.O.T.C., Group Commander.

WEBER, CHARLES LOUIS, Des Plaines, Ill.

Mathematics; Phi Eta Sigma; Delta Sigma Phi, Accountant; Track; Wadsworth Hall Assoc.; Student Council; Intramural Sports.



WILDEN, PETER, Monroeville, New Jersey

Civil Engineering; A.S.C.E.; Union Board, Chairman; Blue Key; Counselor Wadsworth Hall; Chi Epsilon, Vice Pres.

WYLIE, JOHN V., Clio, Michigan

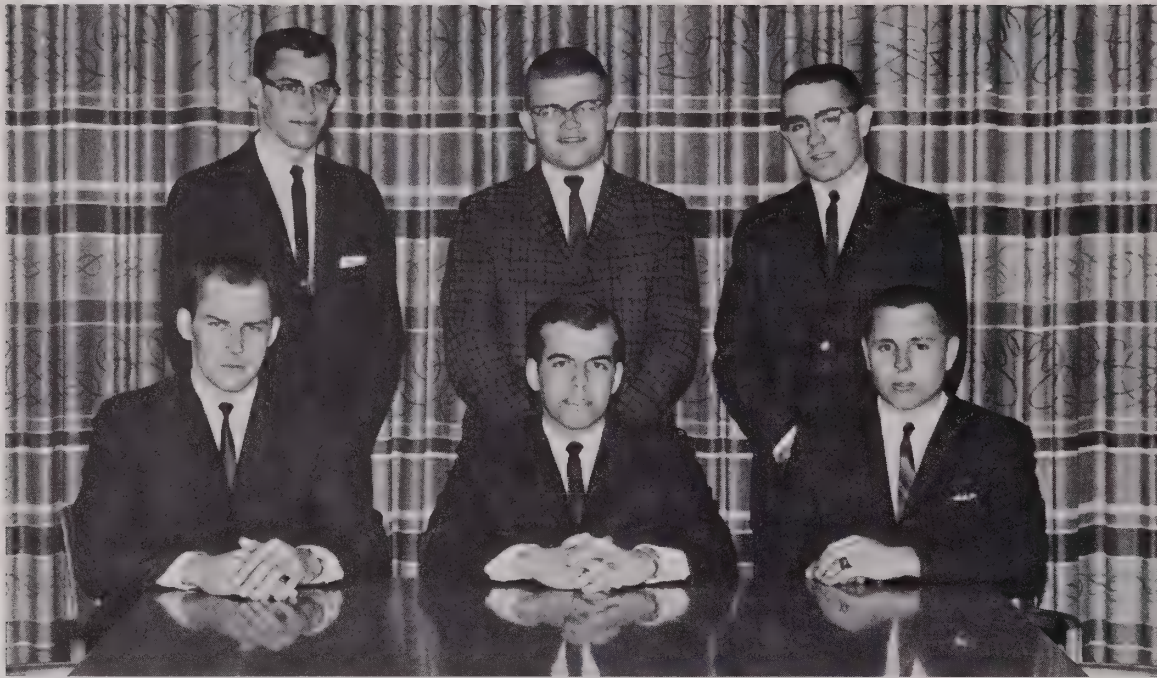
Business Administration; Alpha Phi Omega; Freshman Class, Treas.; Sophomore Class, Treas.; Junior Class, Vice Pres.; Photo Club, Pres.; Arnold Air Society; Blue Key; Sabre Jet Drill Team; AFROTC, SAR Award.

Missing; ABATA, RALPH, Kingsford, Michigan

Business Administration; Varsity Club; Football; S.A.M.



## SENIOR CLASS OFFICERS



Mike Gustafson, Student Council Representative, Larry Gast, President, Dave Elliott, Student Council Representative. *STANDING*: Chuck Weber, Student Council Alternate, Dave Hilliard, Student Council Al-

ternate, Dave Kochis, Vice President. Not pictured: John Cline, Student Council Representative, Bill Massey, Treasurer.

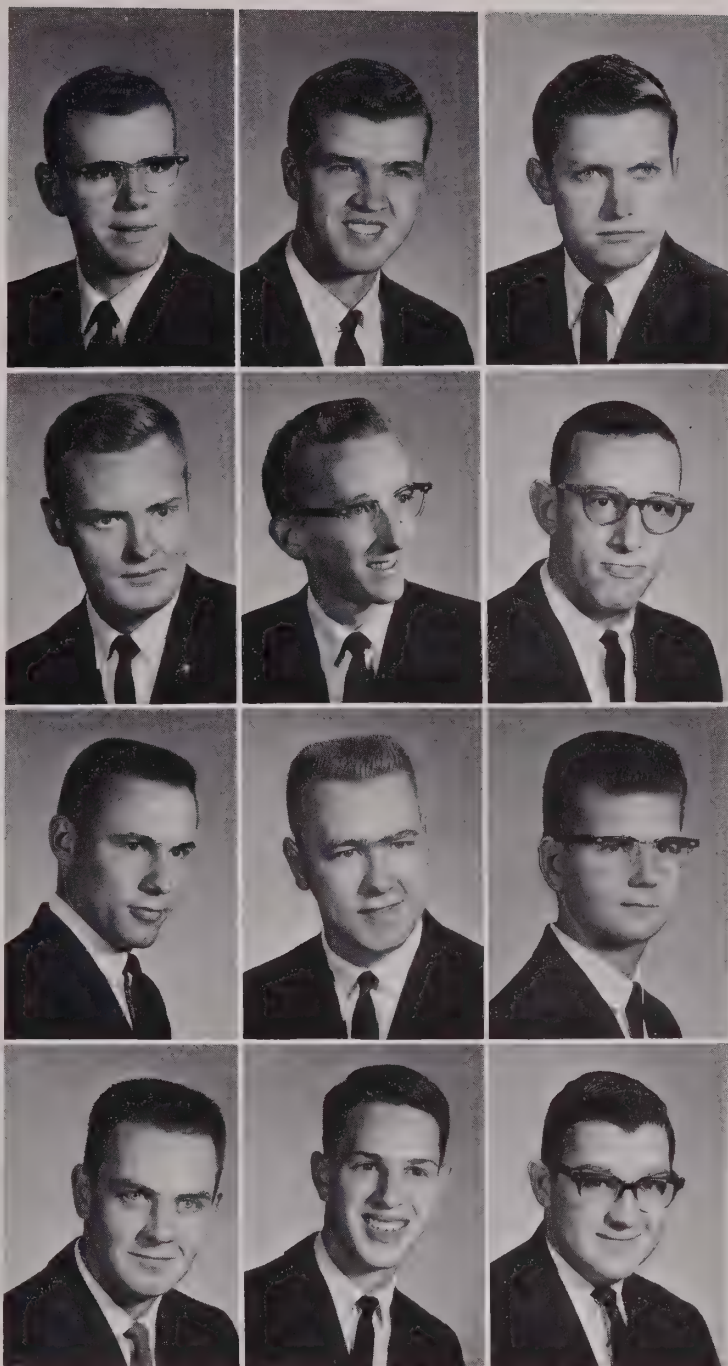
## PLACEMENT STAFF

Mrs. Kay MacLellen, Mr. Dick Dunnebacke, Director, and Miss Eleanor Fournier provide the seniors with very capable assistance in selecting a job.





## SENIOR—CLASS OF 1964



ABRAHAMSON, LAWRENCE P., Sturgeon Bay, Wisc.

Forestry; track, cross country, skiing, forestry club, vice-pres of Beta Iota Omega, Aquinas Club, Varsity Club, Society of American foresters.

AHNEFELDT, JOHN F., Montague, Michigan

Chemistry; A.C.S.

AHO, DENNIS L., Southfield, Michigan

Civil Engineering; Intramural basketball and softball, A.S.C.E.

AHOLA, JOHN, Royal Oak, Michigan

Civil Engineering; A.S.C.E., Varsity Club, Cross Country.

AKEY, LESTER I., Allen Park, Michigan

Electrical Engineering; Glee Club, I.E.E.E., Independents.

ALARIE, KENNETH J., Bay City, Michigan

Metallurgy; Intramural softball, basketball, A.S.M., Daniell Hts. Council—2 yrs.

ALLARD, FRANCIS J., JR., Green Bay, Wisc.

Chemical Engineering; AIChE—Treasurer, Phi Lambda Upsilon—Treasurer, Tau Beta Pi, Newman Club, Aquinas Club.

ALLEN, JOHN RAYMOND, Anvil Location, Mich.

Civil Engineering; A.S.C.E.

ANDERSON, RICHARD D., Kingsford, Mich.

Electrical Engineering.

ANDERSON, ROGER H., Braham, Minnesota

Civil Engineering; A.S.C.E.; Chi Epsilon; Tau Beta Pi; Phi Kappa Phi.

ANDRUS, LANSON, Reese, Michigan

Mechanical Engineering; Wesley Foundation; Glee Club; S.A.E.; Intramural Sports.

ANTINOZZI, ANTHONY, Sault Ste. Marie, Mich.

Business Adm.; Accounting Club, Intramural Hockey; Bowling.

ARIAL, DAVID, West Palm Beach, Florida  
Mathematics.

ARSENAULT, ALLAN ALBERT, Deerton, Mich. Mechanical  
Engineering; A.S.M.E.; Intramural Basketball.

ASBJORNSEN, LARS F., Billingstad, Norway  
Electrical Engineering; B.S. Mech. Engineering.

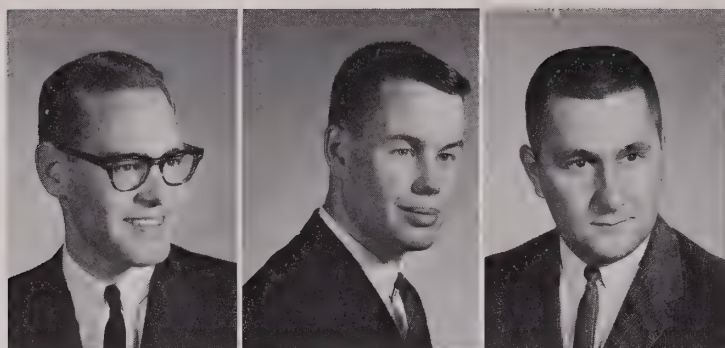
ASIALA, RAYMOND ARTHUR, Brethren, Mich.  
Geological Engineering; A.I.M.E.; Geol. Club.

AZZI, PAUL A., Mohawk, Michigan  
Business Administration; Newman Club, Independents, Intramural Sports.

BARKALOW, BRUCE, Comstock Park, Michigan  
Applied Physics; Intramural football, Superior Seals, American Institute of Physics.



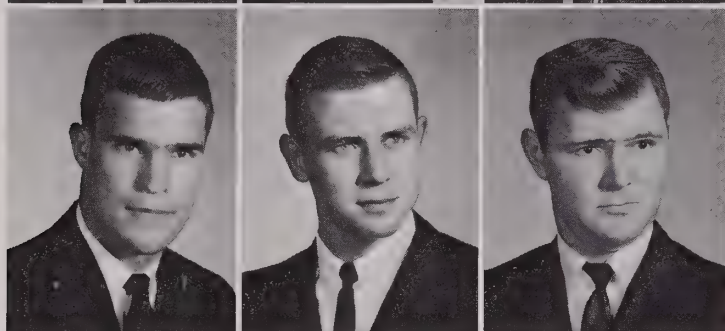




BARNES, DAVID F., Normetal, Quebec  
Metallurgy; Delta Sigma Phi; Sigma Gamma Epsilon; Alpha Sigma Mu; A.I.M.E.

BARNES, ROBERT C., PawPaw, Michigan  
Civil Engineering; A.S.C.E.; A.P.O.

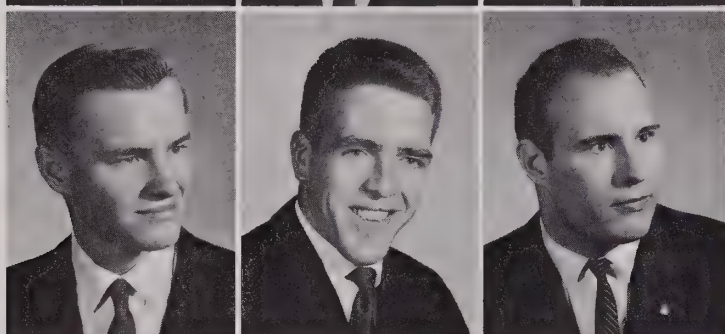
BARRA, RICHARD, W. Paterson, New Jersey  
Chemistry; American Chemical Society



BARTOS, MARTIN W., Washington, Penn.  
Geology; Aquinas Club, Pres; S.A.M.E., Vice Pres.; A.I.M.E.

BATOG, LEO, JR., Grand Rapids, Michigan  
Forestry Club; I.M. Hockey.

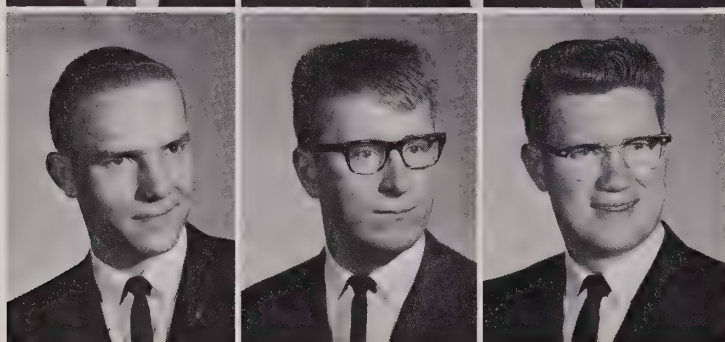
BAUGARTNER, DANIEL, Stambaugh, Mich.  
Civil Engineering; A.S.C.E.; Intramural Bowling.



BECKER, MERLYNN, Moran, Michigan  
Forestry; Forestry Club; Newman Club.

BEFRING, OLAV, Klakegg Jolster, Norway  
Mechanical Engineering; Ski Club, International Club;  
A.S.M.E.

BELMORE, AMES EUGENE, Marquette, Mich.  
Business Administration; Varsity Football; Varsity Club.



BENZ, RICHARD ARTHUR, Houghton, Mich.  
Business Administration; Gamma Delta, Pres.; AFROTC; Beta Sigma Psi, Pres.

BETZING, MARTIN HENRY, Laurium, Mich.  
Electrical Engineering; Alpha Phi Omega; Ski Patrol; Independents; Intramural Sports.

BIETI, FREDERICK GEORGE, Calumet, Mich.  
Electrical Engineering; Intramural Sports.

BILLIE, DOMINIC WILLIAM, Wakefield, Mich.  
Bio-Sciences; Newman Club; Independents; Intramural Sports;  
Alpha Phi Omega.

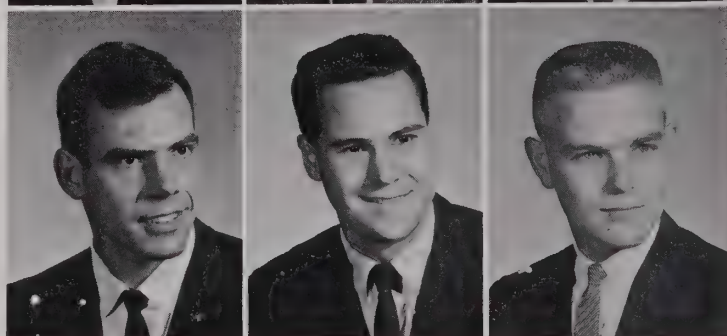
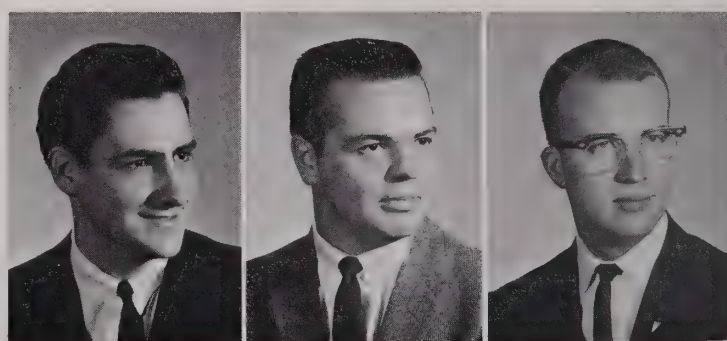
BLICKHAHN, RON, Porterfield, Wisconsin  
Mechanical Engineering; A.S.M.E.; Intramural basketball;  
Baseball; Bowling; Trailertown, Treas. & Pres.

BLISS, THOMAS HENRY, Farmington, Mich.  
Business Administration; Varsity Football, Varsity Hockey;  
A.I.M.E.; S.A.M.; Independents; Flying Club, Treas.; Sky-Diving Team, Sec. Treas.; Dorm Council.

BOES, RICHARD, Sturgeon Bay, Wisc.  
Civil Engineering; Varsity Club; Newman Club, Vice Pres.;  
capt.; Newman House.

BOGDANOFF, ALFRED, Brooklyn, New York  
Geology; A.I.M.E.

BOGGS, JAMES W., Warren, Michigan  
Forestry; Track; Forestry Club; Intramural Basketball.





BOND, WALTER P., Appleton, Wisc.  
Chemical Engineering; Ski Club; A.I.Ch.E.

BOSMAN, VENDEL, New Boston, Mich.  
Forestry; Army ROTC Rifle Team, Sec.; Forestry Club; Wadsworth Hall Sportsmen's Club, Pres.

BOTTI, WILLIAM B., Sussex, New Jersey  
Forestry; Forestry Club.

BOUGHNER, ROBERT EUGENE, Detroit, Mich.  
Mechanical Engineering; Tau Beta Pi; A.S.M.E.; S.A.E.

BOWMAN, KIRBY P., Kincheloe, Michigan.  
Business Administration; S.A.M.E.; Alpha Phi Omega; A.R.O.T.C.

BOZICH, ROBERT A., Eveleth, Minn.  
Electrical Engineering; Newman Club; I.E.E.E.; Ski Club, Pres.; Minnesota Ion Rangers Club, Vice Pres.; Eta Kappa Nu; Rocket Soc.

BRADLEY, GLENWOOD E., Three Rivers, Mich.  
Electrical Engineering; Soc. of American Military Engrs., Pres. Vice Pres.; MacArthur's Engrs. Drill Team, commander; A.I.E.E.E.; A.P.O.

BREITZMAN, MICHAEL W., Sheboygan, Wisc.  
Forestry; Forestry Club; Newman Club; Sigma Phi Epsilon; Varsity Rifle Team; Tri Beta Music Frat.; Glee Club.

BROCKINGTON, GARY, Kingsford, Mich.  
Civil Engineering; A.S.C.E.; Kappa Delta Psi.

BRODHAGEN, JACK D., South Haven, Mich.  
Civil Engineering; Intramurals; V.P. Student Council (Sault Branch) Wadsworth Hall Ass., Treas.

BROUSSEAU, CARL H., Alpena, Mich.  
Forestry; Track; Forestry Club.

BUDZIK, JOHN M., Hazelcrest, Illinois  
Forestry; Kappa Delta Psi; Forestry Club; Ski Club.



BUKWA, BONNIE ANN, Dolton, Illinois  
Chemistry; A.C.S.; A.W.S., Pres.; Deans List; Faculty Women's Club Award; International Club.

BUKWA, WAYNE, Riverdale, Illinois  
Forestry.

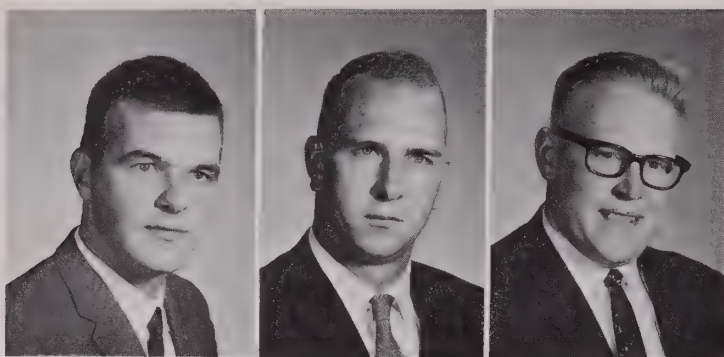
BUNCE, ROBERT ALFRED III, Evanston, Ill.  
Civil Engineering; Phi Kappa Tau; Tri-Beta, Pres.; Tau Beta Pi; Concert Lecture Committee.

BURNETTE, KEITH THOMAS, Fremont, Mich.  
Electrical Engineering; Arnold Air Soc.; AFROTC Drill Team; I.E.E.E.

BYSTROM, WILLIAM JOHN, Marquette, Mich.  
Civil Eng. and Engr. Administration; A.I.M.E.; A.S.C.E.; Varsity Ski Team; Ski Club, Chi Epsilon; Intramural Sports.

CAMBENSY, ROBERT FRANK, Marquette, Mich.  
Mathematics; Kappa Delta Psi; Intramurals.





CAMERON, DOUGLAS J., Sault Ste. Marie, Ont.  
Civil Engineering; A.S.C.E.; Geology Club; E.I.C.

CAMPBELL, EDWIN H., Clarkston, Michigan  
Civil Engineering; A.S.C.E. Pres.; Chi Epsilon; Daniell Heights Council, Treas.; Flying Club; Wrestling; Football.

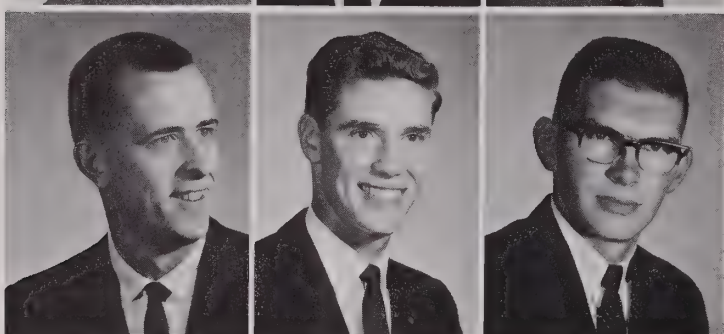
CARLSON, DAVID OSCAR, New York, N.Y.  
Applied Physics; Delta Sigma Phi; I.F.A. Social Chairman; MTU Lode; A.I.P.; Superior Seals Skin Diving; Phi Eta Sigma.



CARLSON, JANET ELAINE, Laurium, Mich.  
Mathematics; Assoc. Women Students; Inter-Varsity Christian Fellowship.

CASANOVA, CHARLES DAVID, Vulcan, Mich.  
Applied Physics; American Institute of Physics; Rocket Society.

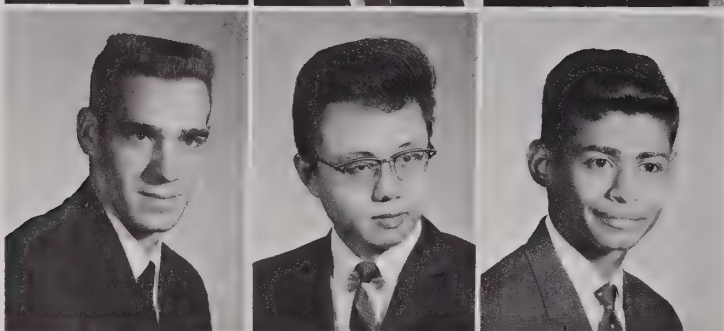
CASTLE, ROBERT H., Ada, Michigan  
Geological Engineering; A.I.M.E.; Rock Knockers; I.M. Bowling, swimming, hockey.



CHALIFOUX, NORMAN J., Houghton Lake, Mich.  
Civil Engineering.

CHAMBERLAIN, PETER G., Hell, Michigan  
Geophysical Eng.; Geology Club (Soo); A.I.M.E.

CHESEBROUGH, JOHN M., Ilion, New York  
Electrical Engineering; Varsity Track, S.A.M.E.; Intramural Sports.



CHESHIRE, JAMES O., Hartford, Mich.  
Mechanical Engineering; Daniell Hts. Council; Pistol Club; A.S.M.E.; S.A.E.; Intramural Sports.

CHIN, HARRY L., Brooklyn, New York  
Electrical Engineering; Inst. of Elec. Engineers; Photography Club; Gymnastic Club.

CHOCKALINGAM, SUNDARAM, Madurai-i, India  
Electrical Engineering and Eng. Admin. International Club; People to People Program.

CLAUS, DANIEL FRANCIS, Big Bay, Michigan.  
Chemical Engineering; A.I.Ch.E.; Intramural basketball.

COLLINS, JAMES SHELDON, Negaunee, Mich.  
Civil Engineering; MTU Flying Club; A.S.C.E.; Daniell Hts. Council.

COMRIE, ANDREW B., Monroe, Michigan  
Mechanical Engineering; Arnold Air Society.

COOPER, JAMES GARTH, Muskegon, Mich.  
Applied Physics; A.I.P., Sec.-Treas.; Pistol Club.

CORATHERS, JOSEPH R., West Virginia, Mich.  
Electrical Engineering; Daniell Hts. Council, Pres.; I.E.E.E.

COUTURE, GUY FRANCIS, Hancock, Michigan  
Civil Engineering; Independents; Newman Club; A.S.C.E.





COX, MARVIN, JACOB, Ironwood, Mich.  
Applied Physics; AFROTC; AFROTC Rifle Team; Varsity Rifle Team.

CRICK, VIRLON, Petoskey, Michigan  
Mechanical Engineering; S.A.M.E.; A.S.M.E.

CRONK, ALLEN W., Saginaw, Michigan  
Math; Intramural Sports; Student Instructor; Math Club.

DAHL, CARL K., Port Arthur Ont., Can.  
Civil Engineering; American Society Civil Engineers, A.I.M.E.

DAIL, DOUGLAS R., Northville, Mich.  
Civil Engineering; Phi Kappa Tau; Chi Epsilon; A.S.C.E.

DALAL, HOSHI, Bombay, India  
Electrical Engineering.

DAVIS, RICHARD D., Midland, Mich.  
Civil Engineering; A.S.C.E.; Band.

DAVIS, R. WILLIAM, St. Joseph, Mich.  
Mathematics; Glee Club, MTU Little Theatre, Concert Lecture Committee; Wadsworth Hall Association.

DAY, DAMON, Flint, Michigan  
Geological Engineering; Sigma Gamma Epsilon.

DEAN, ROBERT HARRISON, Miami Beach, Fla.  
Mining Engineering; Wadsworth Hall Assn., Vice Pres.; Arnold Air Society, Commander; Alpha Phi Omega; A.I.M.E.; A.F.R.O.T.C.

DEBRUIN, DAVID, Kimberly, Wisc.  
Met. Engineering; A.I.M.E.; A.S.M.

DE CLARK, JOHN, Norway, Mich.  
Metallurgy; Kappa Delta Psi; Am.S.M., Varsity Football; A.I.M.E.



DEEPMOUSE, W. L., Spring Lake, Mich.  
Chemical Engineering; Kappa Delta Psi; Union Board; Concert Lecture Series; Intramural Sports.

DE GENARO, DONALD L., Republic, Mich.  
Forestry; Forestry Club; Intramural Basketball, Softball, Handball, Volleyball.

DE GROOT, RONALD, Norway, Michigan  
Mechanical Engineering; Delta Sigma Phi; A.S.M.E.; S.A.E.; Newman Club.

DEVER, DAVID J., Houghton, Michigan  
Physics.

DE WITT, PAUL H., Niles, Michigan  
Mechanical Engineering; ROTC; Glee Club; MTU Little Theatre; Mgr. Wadsworth Hall Radio Station.

DIEM, GEORGE, Minden City, Michigan  
Accounting; Accounting Club.





DION, LAWRENCE JOSEPH, Lake Linden, Mich.  
Electrical Engineering; Independents; I.E.E.E.

DIVER, DEAN JOSEPH, Deerfield, Mich.  
Mechanical Engineering; Independents.

DOMPIERRE, JAMES ALLAN, Negaunee, Mich.  
Mathematics; Math Club; Newman Club; Intramural Sports; Phi Eta Sigma.

DOUGHTON, BERNARD ERNEST, Vancouver, B.C., Can.  
Civil Engineering.

DOYLE, LAWRENCE J., Grand Rapids, Mich.  
Mechanical Engineering; D.H.H. Dorm Club; Alpha Phi Omega; Newman Club; Huskies Ski Club, Vice Pres.; Ski Patrol; Intramural Skiing.

DUCA, DAVID A., Hermansville, Mich.  
Mathematics.

DUNKER, JOHN A., Dolton, Illinois  
Forestry; Forestry Club; Varsity Cross-Country Skiing; Glee Club; Tri-Beta, Sec.

DYAR, LANCE P., Bessemer, Michigan  
Civil Engineering; Band; Saber Jets Team; Arnold Air Society; AFROTC; A.S.C.E.; Beta Sigma Psi; Chi Epsilon; Tau Beta Pi.

ELENICH, JOHN J., Laurium, Michigan  
Business Administration; Independents.

ELLIOTT, ALBERT DOUGLAS, Sault Ste. Marie, Ontario, Can.  
Business Administration; Track & Field.

ERICKSON, RICHARD R., Escanaba, Mich.  
Forestry; Sigma Rho; Forestry Club; Intramurals; Forester Staff; Chairman, Intramural Athletic Board.

FARRELL, ROBERT G., Sarnia, Ontario, Can.  
Electrical Engineering; Eta Kappa Nu; S.A.E.; I.E.E.E.

FERDERBER, TERRANCE F., Bourlamaque, Quebec, Can.  
Mining; A.I.M.E., Sec.; Intramural Sports.

FISHER, WILLIAM R., JR., White Cloud, Mich.  
Mathematics; Daniell Hts. Council; Glee Club; Delta Sigma Phi; Student Counselor.

FITZNER, RALPH A., Sparta, Michigan  
Business Administration; Accounting Club.

FLEIS, EDWARD M., Cedar, Michigan  
Civil Engineering; D.H.H. Dorm Club; A.S.C.E.; Newman Club; Sigma Rho.

FLODIN, ERWIN W., Manistique, Michigan  
Electrical Engineering; Electrical Engineering Club (Soo Branch).

FOURNIER, WILLARD J., Hancock, Michigan  
Civil Engineering; Sigma Phi Epsilon; A.S.C.E.





FRENZEL, GEORGE O., Marinette, Wisc.  
Electrical Engineering; Varsity Bowling; I.E.E.E.

GANGA, RAYMOND C., Iron Mountain, Mich.  
Metallurgical Engineering; MacArthurs Engineers Drill Team; A.S.M.; Glee Club; Little Theatre.

GARITY, THOMAS P., Houghton, Mich.  
Civil Engineering; A.S.C.E.; Theta Tau; Newman Club.

GASPER, JOHN, Detroit, Michigan  
Physics; Pi Sigma Math Club; American Institute of Physics.

GAUTHIER, ALFRED T., JR., Flint, Mich.  
Forestry; Forestry Club; Newman Club.

GAY, BARRY L., Houghton, Michigan  
Mechanical Engineering; S.A.E.; Theta Tau; Student Athletic Board.

GAYLORD, DAVIS, E., Buckley, Mich.  
Metallurgical Engineering; A.S.M., Pres.; Alpha Phi Omega; ROTC Rifle Team; A.I.M.E.; Intramurals.

GEBEAU, RONALD C., Ontonagon, Mich.  
Metallurgical Engineering; Alpha Phi Omega; A.S.M.; Alpha Sigma Mu.

GEIGER, JERRY ROBERT, Lakeview, N.Y.  
Civil Engineering; A.S.C.E.; Intramural Sports.

GOFF, WALTER WESLEY, Bay Port, Mich.  
Civil Engineering; MTU Flying Club; Band, Pep Band, Glee Club; A.S.C.E.; Bowling; Lode Staff.

GOTCHER, LEE EARL, Gibraltar, Mich.  
Forestry; Forestry Club; S.A.F.; Pistol Club; Forester Annual.

GOUGH, WILLIAM L., Mackinac Island, Mich.  
Mathematics; Phi Eta Sigma; Rotarian Award; Phi Kappa Phi.



GOURLIE, JAMES CHARLES, Genelle, B.C., Can.  
Accounting.

GRAILER, LOUIS D., Stambough, Michigan  
Metallurgical Engineering; Varsity Basketball; Varsity Tennis; A.I.M.E.; Aquinas Club; Varsity Club.

GRASS, RICHARD I., Allen Park, Michigan  
Mining; A.I.M.E.; Intramurals, M.H.S. Scholarship.

GREGORICH, STEPHEN P., Mohawk, Michigan  
Civil Engineering; Independents; A.S.C.E.

GRIBBLE, WILLIAM C., Ironwood, Michigan  
Civil Engineering; A.S.C.E., S.A.M.E., Intramural Sports.

GRIMBLE, DAVID G., Eagle Harbor, N.Y.  
Forest Management; Forestry Club; People to People Club.







GRINWIS, DONALD J., Grandville, Mich.  
Chemical Engineering; A.I.Ch.E.

GROSMAN, JOHN, Rhinelander, Wisc.  
Forestry; Forestry Club; Newman Club.

GUZEK, JOHN O., Ontonagon, Mich.  
Chemical Engineering; Newman Club; A.I.Ch.E.; Alpha Phi Omega.

GUZEK, JOSEPH M., Ontonagon, Mich.  
Chemical Engineering; Tau Beta Pi; A.I.Ch.E.; Phi Eta Sigma; Newman Club; Alpha Phi Omega.

HAAPALA, FRED H., Chassell, Michigan  
Forestry; Forestry Club; Independents.

HABER, GORDON CLIFFORD, Dearborn, Mich.  
Geophysical Engineering; Isle Royale National Honor Association; A.I.M.E.; Intramural Sports.

HACHMUTH, GARY TAYLOR, Comstock Park, Mich.  
Mech. Eng.-Production Option; Delta Sigma Phi; Intramural Sports; Varsity Softball.

HACKBARDT, GEORGE A., Howard City, Mich.  
Electrical Engineering; I.E.E.E.; A.P.O.; Newman Club.

HAGE, GEORGE A., JR., Milwaukee, Wisc.  
Business Administration; S.A.M.E.; A.S.M.E.; Young Republicans.

HAMBLEY, ALLAN ROY, Niles, Michigan  
Electrical Engineering; Eta Kappa Nu; Tau Beta Pi.

HAMILTON, WILLIAM WAYNE, Muskegon, Mich.  
Metallurgy; A.I.M.E.; A.S.M., Sec.; Kappa Delta Psi, Sec.; Alpha Sigma Mu.

HANNULA, OLIVER N., South Porcupine, Ont.  
Forestry; Forestry Club; Varsity Club; Varsity Track & Field; Varsity Skiing; Varsity cross-country, Capt.

Placement interviews are an important aspect of a Tech man's senior year. Nearly three hundred companies send representatives to the Tech campus annually to conduct close to six thousand interviews, an average of over twelve per senior. As a result of these interviews, about three job offers are made to each senior.

RIGHT: Mr. T. F. Derro of Associated Spring Corp. talks with a Tech senior concerning employment opportunities with his company.







HARDIE, TERRY JOHN, Kitckener, Ontario  
Metallurgical Engineering; A.S.M.; Theta Tau; Intramural Sports.

HARDY, HARRY E., Black River Falls, Wisc.  
Civil Engineering; Sigma Rho; A.S.C.E.; IFA Representative.

HARGREAVES, CHARLES R., St. Clair Shores  
Metallurgy; A.I.M.E.; A.S.M.; Freshman Hockey.

HARKENRIDER, GERALD F., Ludington, Mich.  
Civil Engineering; Triumverate Winter Carnival; A.S.C.E.

HARMES, ROLAND JR., Davisburg, Michigan  
Forestry; Varsity Golf; Varsity Club; Forestry Club; Intramural Track, Basketball, Hockey.

HARRIS, GERALD F., Sault Ste. Marie, Ont.  
Chemistry; Chem. Club; Intramural Badminton; Canterbury Club; A.C.S.

HARRISON, RALPH NORMAN, Wakefield, Michigan  
Electrical Engineering.

HARTENBURG, JAMES, Wheeler, Michigan  
Electrical Engineering.

HASELEY, FRANKLYN K., Houghton, Mich.  
Civil Engineering; A.S.C.E.; Gamma Delta; Independents; Band; Starliners.

HAWKEY, JAMES C., Sturgeon Bay, Wisc.  
Civil Engineering; Young Republicans; A.S.C.E., Librarian.

HEATH, ED. Toronto, Ontario  
Geological Engineering; A.I.M.E.; Flying Club; T.I.M.A.A.

HEBBARD, JAMES PHILLIP, Ishpeming, Mich.  
Metallurgy; A.I.M.E.; Independents; Intramural Sports.

HENRICKSEN, MICHAEL C., Hazelhurst, Wisc.  
Forestry; Forestry Club.

HERMANN, JOHN H., Houghton, Michigan  
Forestry; Varsity Skiing; Forestry Club; Sigma Rho.

HETTINGA, ROGER J., Rothschild, Wisc.  
Mechanical Engineering; Varsity Football; Varsity Wrestling; Varsity Club; Kappa Delta Psi; A.S.M.E.

HILL, ARDEN MICHAEL, Ramsay, Michigan  
Business Administration; Alpha Phi Omega, Treas.; Newman Club.

HILLIARD, DAVID, Muskegon, Michigan  
Chemical Engineering; Phi Kappa Tau; Alpha Phi Omega; Phi Eta Sigma; Phi Lambda Upsilon; Tau Beta Pi; A.I.Ch.E.

HINTSALA, DANIEL LEONARD, Negaunee, Michigan  
Mechanical Engineering; A.S.M.E.; S.A.E.







HINTSALA, RALPH STEVEN, Marquette, Mich.  
Mathematics

HINTZ, GERALD J., Mosinee, Wisc.  
Electrical Engineering; Blue Key, Vice Pres.; Kappa Delta  
Psi, Pres.; Athletic Board; A.I.E.E.

HITCHENS, WILLIAM J., Trimountain, Mich.  
Civil Engineering; Independents; A.S.C.E.

HODEK, RALPH J., Berwyn, Illinois  
Civil Engineering; A.S.C.E.; Chi Epsilon.

HODGE, WALTER, Detroit, Michigan  
Mechanical Engineering; A.S.M.E.; S.A.E.; Ski Club; Fly-  
ing Club.

HOLBROOK, WAYNE, Galesburg, Mich.  
Electrical Engineering; Eta Kappa Nu; Tau Beta Pi;  
Intramural Football and Hockey; I.E.E.E.

HOLISH, LAWRENCE, Chicago, Illinois  
Civil Engineering; A.P.O.; Flying Club, A.S.C.E.; Newman  
Club.

HONKANEN, MARJORIE C., Calumet, Mich.  
Mathematics; Ass. Women Students, Sec.-Treas; Angel  
Flight; Lode Staff; InterVarsity Christian Fellowship; Pi  
Sigma.

HOPKINSON, JOHN ERIC, Toronto, Ontario  
Mining; A.I.M.E., Pres.; Student Board of Publications.

HORSEMAN, MARLIN L., Midland, Michigan  
Physics and Applied Physics; A.I.P.; Rocket Society; Mar-  
ried Student Government Representative.

HORTON, RICHARD W., Kenmore, New York  
Electrical Engineering; Tech Promenaders.

HOSKING, A. DENNIS, Hancock, Mich.  
Business Administration; Kappa Sigma Iota; Independents,  
Intramural Sports.

HOSTMAN, JAMES W., Wyandotte, Michigan  
Chemical Engineering; Alpha Phi Omega; Newman Club;  
S.A.M.E.

HRADEL, MICHAEL FLORIAN, Mt. Pleasant, Mich.  
Chemical Engineering; Intramural Hockey; A.S.M.; A.I.Ch.E.;  
ROTC Honor Committee.

HUOTARI, KENNETH, Champion, Mich.  
Mechanical Engineering; A.S.M.E.; S.A.E.; Intramural  
Sports; Wadsworth Hall Scholastic Committee.

HUTSON, MAURICE L., St. Clair Shores, Mich.  
Electrical Engineering; I.E.E.E.; Eta Kappa Nu; Tau Beta  
Pi; Phi Eta Sigma; Intramural Basketball and Hockey.

ILLIKAINEN, STANLEY E., Bruce Crossing, Mich.  
Chemical Engineering; Phi Eta Sigma; Tau Beta Pi; Phi  
Lambda Upsilon; A.I.Ch.E.

IVANITZ, JOHN M., Regina, Saskatchewan  
Geological Engineering; Varsity Hockey; Varsity Golf; Var-  
sity Club.





IVES, ROBERT C., Sault Ste. Marie, Mich.  
Met. Engineering.

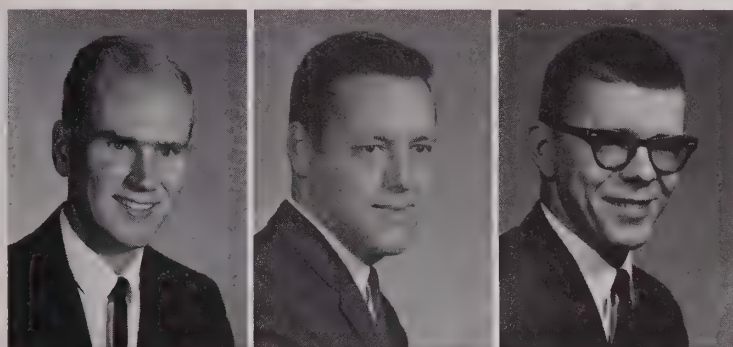
JACKSON, ARMAND O., Quinnesee, Mich.  
Forestry; Pistol Club; Society of American Foresters.

JANDREY, GENE H., Norway, Michigan  
Chemical Engineering; S.A.M.E., Sec.; Alpha Phi Omega.

JARVI, DENNIS WADE, Negaunee, Michigan  
Mechanical Engineering; Arnold Air Society; Sabre Jet Drill Team, Commander; Flying Club; Sky Diving Club; AFROTC; S.A.E.

JARVIS, JEROLD F., Crystal Falls, Mich.  
Civil Engineering; A.S.C.E.; Superior Seals Skindiving Club.

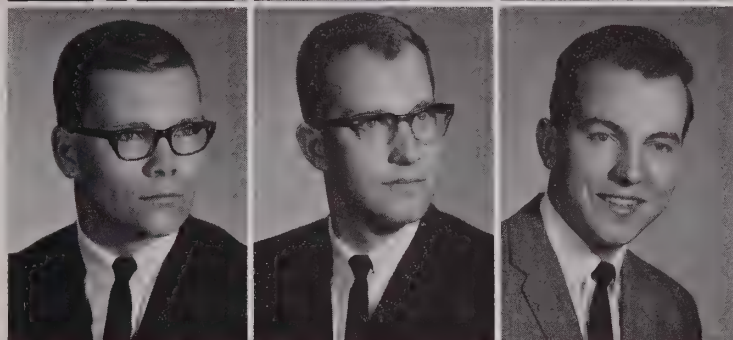
JENNISON, JAMES AVERY, Iron Mountain, Mich.  
Electrical Engineering; Alpha Phi Omega; I.E.E.E.



JENSEN, DENNIS H., Norway, Michigan  
Metallurgy; A.S.M.; Intramural Sports.

JENSEN, LYMAN M., Goodman, Wisconsin  
Civil Engineering; Kappa Delta Psi; Alpha Phi Omega; A.S.C.E.

JINGLES, DAVID C., Grand Rapids, Michigan  
Electrical Engineering; I.E.E.E.; Newman Club; Intramural Swimming, Bowling, Basketball.



JOHNSON, JOHN CARL, Ishpeming, Michigan  
Applied Physics; American Institute of Physics; Independents; Phi Eta Sigma; Intramural Sports.

JOHNSON, R. THOMAS, Sault Ste. Marie, Mich.  
S.A.M., Pres.; International Commerce and Finance Club; Intramural Hockey, Softball.

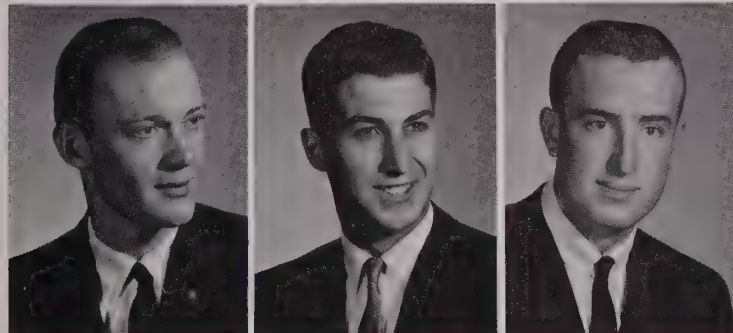
JOHNSON, ROBERT WARNER, Iron Mountain, Mich.  
Mechanical Engineering; Alpha Phi Omega; A.S.M.E.; Tau Beta Pi.



JOHNSON, TERRY ROY, Reed City, Mich.  
Electrical Engineering; Army Drill Team; Intramural Football and Weight Lifting.

JOHNSTON, DAVID ASHTON, Islington, Ontario  
Mining Engineering; A.I.M.E.; Sigma Gamma Epsilon, Sec.-Treas.; Intramural Sports.

JOHNSTON, REED RICHARD, Ensign, Michigan  
Mechanical Engineering; A.S.M.E.; S.A.E.



JONES, CHARLES G., Sheboygan, Wisc.  
Forestry; Varsity Basketball; Varsity Track; Varsity Club; Forestry Club; Intramural Sports.

JONES, RICHARD STEVEN, Vermilion, Ohio  
Forestry; Sportsman's Club; Intramural Sports; Forestry Club.

JONES, ROGER H., Churchville, New York  
Applied Physics; D.H.H. Dorm Council; Young Republicans; Intramural Sports.





JORDAN, CHARLES, Houghton, Michigan  
Geological Engineering.

JUILLAND, JEAN DEMÈTRE, Switzerland  
Geology.

KAIFESH, MICHAEL W., Ahmeek, Michigan  
Mechanical Engineering; A.S.M.E.

KAMINSKI, DAVID L., Dearborn Hts., Mich.  
Business Adm.; Kappa Delta Psi; Newman Club; Varsity  
Track; Varsity Softball; Intramural Sports.

KARPPINEN, JOHN P., Chassell, Michigan  
Business Administration.

KARPPINEN, WAYNE W., Negaunee, Michigan  
Mechanical Engineering; S.A.E.

KAUFMAN, WAYNE W., Gladstone, Mich.  
Civil Engineering; A.S.C.E.

KAY, RICHARD, Grosse Pointe Farms, Mich.  
Mechanical Engineering; Varsity Swimming; Student Coun-  
cil Rep.; Eng. Show committee; Delta Sigma Phi.

KAY, RONALD OLIVER, Houghton, Michigan  
Mechanical Engineering; Delta Sigma Phi; Intramural  
Sports; Intramural Board; J.V. Hockey; A.S.M.E.

KEITHLY, DAVID ARTHUR, South Haven, Mich.  
Mathematics; Alpha Phi Omega; Flying Club; Pistol Club;  
A.I.E.E.; I.R.E.

KELLY, MARGARET A., Calumet, Michigan  
Medical Technology; Phi Lambda Beta.

KEMP, RICHARD ALFRED, Livonia, Mich.  
Met. Engineering; Alpha Phi Omega; A.I.M.E.

KENTALA, ROGER, Calumet, Michigan  
Biological Sciences; Bio-Science Club.

KESKIMAKI, ALBERT ERNEST, Gwinn, Mich.  
Civil Engineering and Engr. Admin.; A.S.C.E.

KESTI, RICHARD J., Huntington Woods, Mich.  
Metallurgical Engineering; A.S.M.; A.I.M.E.; L.S.A.

KHANT, ALBERT A., Rangoon, Burma  
Electrical Engineering; International Club; I.E.E.E.

KIBBE, WILLIAM A., Cadillac, Michigan  
Civil Engineering; A.S.C.E.; Chi Epsilon; Civil Engineering  
Club.

KIRCIK, WILLIS, Chicago, Illinois  
Civil Engineering; A.S.C.E.; Ski Club; Chi Epsilon; Tau  
Beta Pi.





KLEMETT, E. ALRICK, Hancock, Michigan  
Applied Physics; Sigma Rho; Blue Key; American Institute of Physics; Intramural Sports.

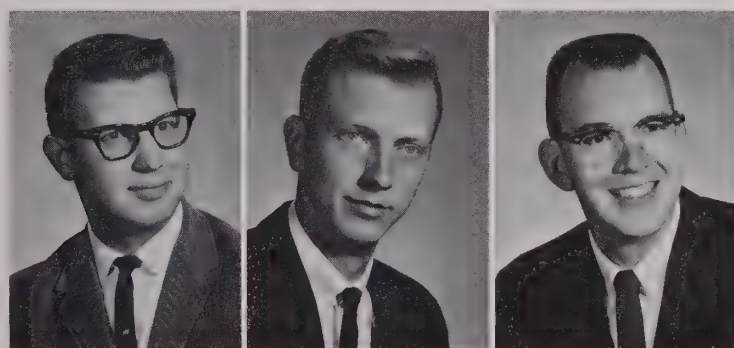
KLIEN, DAVID, Alpena, Michigan  
Electrical Engineering; I.E.E.E.; Newman Club.

KNIESER, GEORGE, Lockport, New York  
Mechanical Engineering, Eng. Admin. A.S.M.E.; S.A.E.

KNUDSEN, KNUD P., Birmingham, Mich.  
Mechanical Engineering; S.A.E.; A.S.M.E.; Canterbury Club.

KOCHIS, DAVID M., Elgin, Illinois  
Chemical Engineering; Sigma Rho; Phi Eta Sigma; Blue Key; Tau Beta Pi; Phi Lambda Epsilon, pres.; Vice Pres. Senior Class; Sec. Junior Class; Student Council Rep.

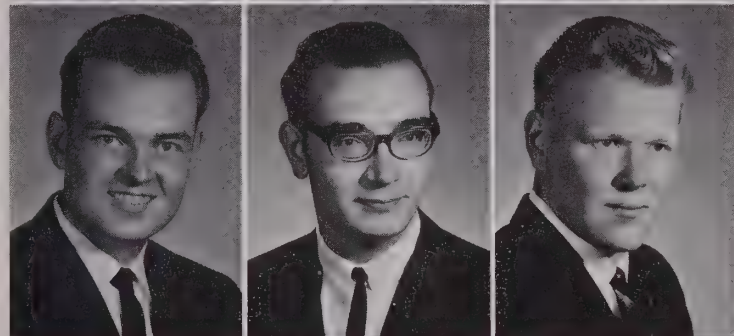
KOHN, THOMAS P., Mt. Clemens, Mich.  
Civil Engineering; Kappa Delta Psi; A.S.C.E.; A.I.M.E.; Rock-knockers.



KOLTAK, WILLIAM J., Grand Rapids, Mich.  
Chemical Engineering; Newman Club; Sigma Rho; A.I.Ch.E.

KOMULA, JAMES, Chassell, Michigan  
Biological Sciences; Independents; Intramural Basketball; Beta Sigma Psi.

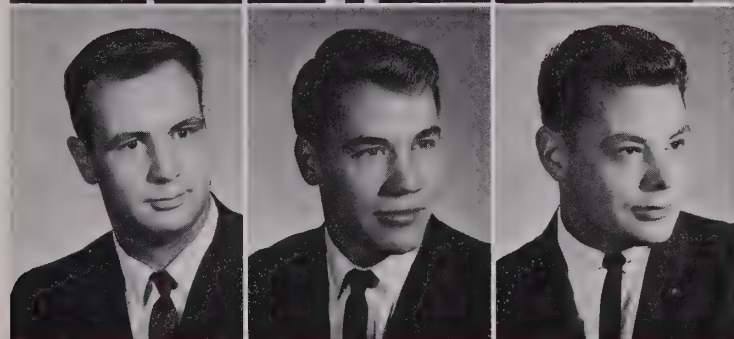
KOONS, GERALD JAY, Waukesha, Wisconsin  
Engineering Geology; AFROTC Rifle Team, Captain; Arnold Air Society; A.I.M.E.



KOPERA, JOSEPH J., JR., Detroit, Michigan  
Electrical Engineering.

KOZIOL, THADDEUS, Chicago, Illinois  
Business Administration; A.I.M.E.; Newman Club; Intramural Football; Precinct Five Alumni Association, president.

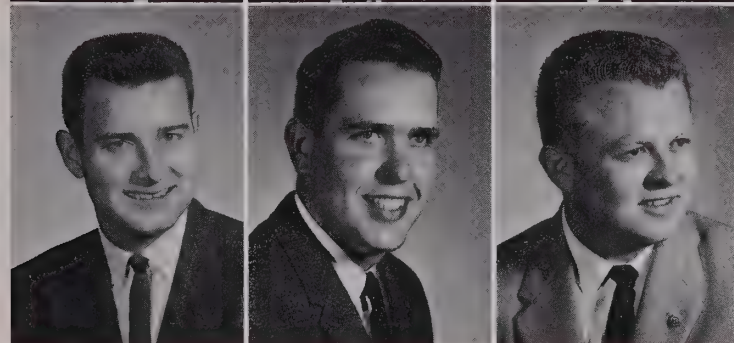
LAAKSO, BOB, Geraldton, Ontario  
Geological Engineering; Intramural Sports; A.I.M.E., Vice-Pres.



LANARI, FREDERICK J., Virginia, Minn.  
Mathematics; Varsity Football; Minn. Iron Rangers; Newman Club; Intramurals.

LARSEN, JACK HENRY, Ludington, Michigan  
Chemical Engineering; A.I.Ch.E.; Triumvirate.

LARSEN, JED ALAN, Ludington, Michigan  
Mechanical Engineering; Sigma Rho; A.S.M.E.

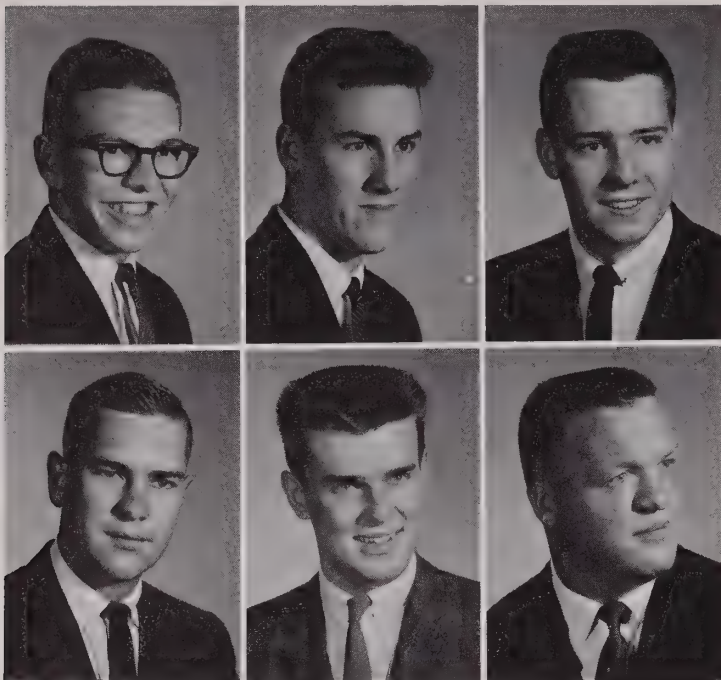


LATHROP, KENNETH A., Abington, Massachusetts  
Forestry; Intramural Sports; Forestry Club.

LAURITZEN, ERIC GROVE, Hamburg, New York  
Mechanical Engineering; A.S.M.E.; Sigma Phi Epsilon; S.A.M.E.; Ski Club.

LA VIOLETTE, MARTIN MONTAGNE, Stambaugh, Mich.  
Civil Engineering; A.S.C.E.





LA VIOLETTE, PATRICK, Stambaugh, Mich.  
Civil Engineering; A.S.C.E.

LAWRY, EDWARD D., Marquette, Michigan  
Electrical Engineering; Kappa Delta Psi; Varsity Track;  
Varsity Basketball.

LEE, KENNETH R., Bridgeport, Michigan  
Chemical Engineering; A.I.Ch.E.; Aquinas Club.

LEEFINK, GERRIT, Mountain, Wisconsin  
Geological Engineering; A.I.M.E.; D.H.H. Dorm Council.

LEINONEN, GEORGE EDWIN, Hancock, Mich.  
Electrical Engineering.

LEIVISKA, RONALD EINO, Negaunee, Mich.  
Metallurgical Engineering; A.S.M.; Intramural Sports.

LENTZ, RODNEY W., Onondaga  
Civil Engineering; A.S.C.E.

LEONARDSON, ROBERT, Goetzville, Mich.  
Grad. Student in Geology; A.I.M.E.; Tau Beta Pi; Sigma  
Gamma Epsilon; Ski Patrol.

LINDELL, WOLFRED A., Gheen, Minnesota  
Mechanical Engineering; Minnesota Iron Rangers; S.A.E.;  
A.S.M.E.

LINDSTROM, VERNON LEROY, Carney, Mich.  
Accounting; S.A.M.; Intramural Sports.

LINTNER, DAVID R., Wyandotte, Mich.  
Forestry; Forestry Club; Newman Club; Intramural Bowling.

LISTER, GEORGE EDWARD, Port Arthur, Ont.  
Pre-Medicine; Delta Sigma Phi; Sky Diving Team, Pres.

LONGLEY, LEONARD SCOTT, Niagara Falls, N.Y.  
Mechanical Engineering.

LOUGHRAN, THOMAS J., Leetsdale, Penn.  
Mathematics; Newman Club; Phi Kappa Phi.

LOWING, BRUCE S., Jenison, Michigan  
Electrical Engineering; Independents; MTU Radio Club.

LYON, GORDON EDWARD, Negaunee, Mich.  
Physics; American Institute of Physics.

MacBRIDE, JAMES, Hancock, Michigan  
Business Administration; S.A.M.; MTU Business Club;  
Independents; Ski Club; United Campus Christian Fellow-  
ship, Intramural Sports.

MACKEY, GEORGE ARTHUR, Hancock, Mich.  
Civil Engineering; A.S.C.E.





MACKINTOSH, RICHARD, Adrian, Mich.  
Mechanical Engineering; Theta Tau; A.S.H.V.A.;  
A.S.M.E.; Intramural Sports; Aquinas Club; Varsity Track.

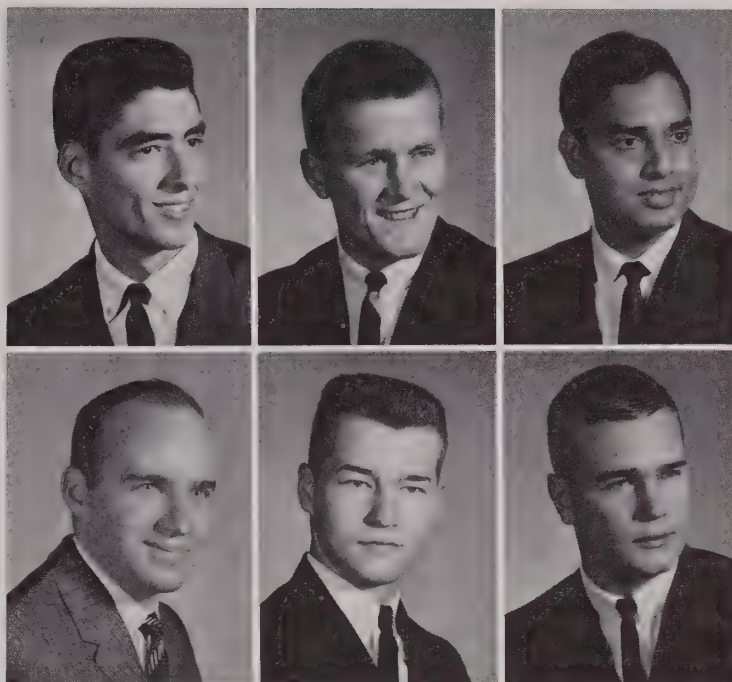
MacLELLAN, GARY, Calgary, Alberta, Can.  
Business Administration; Varsity Hockey, Varsity Golf; Varsity Club.

MANAJAN, MOHINDER PAL, Hoshiarpur, Punjab  
Civil Engineering; International Club; People to People.

MAHY, DENNIS M., Oshkosh, Wisc.  
Forestry; Forestry Club; Varsity Rifle; Pistol Club.

MAKI, DOUGLAS JOSEPH, Ironwood, Mich.  
Mechanical Engineering; Ski Club; A.S.M.E.; Theta Tau;  
Intramurals.

MAKI, WESLEY WILLIAM, Marquette, Mich.  
Mathematics; Kappa Delta Psi; Intramural Hockey.



MARCIN, THOMAS M., Hamburg, New York  
Mechanical Engineering; Varsity Wrestling; A.S.M.E.

MARTIN, JUDITH A., Detroit, Michigan  
Biological Sciences.

MARTIN, LOUIS, Muskegon, Michigan  
Mechanical Engineering; A.S.M.E.; Newman Club; Intramural Hand Ball, Tennis; Glee Club.

MARTIN, WILLIAM R. JR., Detroit, Michigan  
Mechanical Engineering; Glee Club; Dorm Council; Student Assistant Computer Lab.

MARTZ, LARRY W., Imlay City, Michigan  
Chemical Engineering; Delta Sigma Phi, Sec.; Gamma Delta; A.I.Ch.E., Pres.; Intramural Softball, Bowling; Treasurer Junior Class.

MARTZ, SHIRLEY C., Detroit, Michigan  
Chemistry; Tech Wives; Pyramid Club; American Chemical Society; Newman Club; Bowling.

MATHIEU, JON DAVID, Bridgman, Michigan  
Mechanical Engineering; Varsity Wrestling; Newman Club; Newman House.

MATROSIC, CHARLES ALFSEN, Detroit, Michigan  
Metallurgical Engineering; Delta Sigma Phi; Army ROTC; MacArthur's Engineers Drill Team; Lode; Keeweenawan; Who's Who Among Students 1963.

MATTSON, BRUCE HAROLD, Bessemer, Mich.  
Electrical Engineering; I.E.E.E.

MATZ, DONALD L., Petoskey, Michigan  
Mechanical Engineering; A.S.M.E.; Intramural Basketball.

McKEE, HOWARD, Sault Ste. Marie, Michigan  
Business Administration; S.A.M.E.; S.A.M.; Varsity Rifle Team; ROTC.

McKERNAN, EDWARD, Cadillac, Michigan  
Civil Engineering; A.S.C.E.; Kappa Delta Psi; Intramural Sports.





LEFT: Seniors make the most of their status during Frosh Week, when the Freshmen must obey the rules or suffer the consequences. Here, senior Vic Davis issues a violation ticket to a freshman coed.

McLEAN, HUGH LORNE, St. Ignace, Michigan  
Mechanical Engineering; A.S.M.E.; I.V.C.F.; Ski Club;  
Intramural Sports.

McVITTIE, PHILIP STUART, Weston, Ont.  
Business Administration; Varsity Club; Varsity Hockey, S.A.M.

MEALOEY, WILLIAM C., Hancock, Michigan  
Electrical Engineering; I.E.E.E.

MEANLEY, GERALD L., Grand Rapids, Mich.  
Electrical Engineering.

MEDDLETON, DANIEL J., Johnson City, N.Y.  
Business Administration; S.A.M.; Student Judiciary Justice;  
Daniell Hts. Council; MTU Business Club.

MEINTZ, FRED H., Stephenson, Michigan  
Civil Engineering; A.S.C.E.; Newman Club; Aquinas Club.

MEYER, DENNIS L., Detroit, Michigan  
Mechanical Engineering; Theta Tau; Varsity Swimming  
Team, Captain; MacArthurs Drill Team; Flying Club.

MEYERS, LLOYD F., Houghton, Michigan  
Business Administration; Sigma Rho.

MIATECH, JAMES KENNETH, Iron River, Mich.  
Mechanical Engineering; A.S.M.E.

MICHAUD, CHARLES E., Whitinsville, Mass.  
Civil Engineering; A.S.C.E.

MILLAR, PETER A., Neenah, Wisc.  
Metallurgical Engineering; Kappa Delta Psi; A.S.M.; Alpha  
Sigma Mu; Intramural Sports.

MILLARD, KENNETH L., Arcaria, Mich.  
Electrical Engineering; S.A.M.E.; A.I.E.E.; Intramural Bas-  
ketball, Football; Varsity Track.







MITCHELL, GEORGE, Sudbury, Ontario  
Metallurgical Engineering and Engr. Admin. Theta Tau Fraternity.

MONETTE, GERALD J., Mass, Michigan  
Mechanical Engineering; A.S.M.E.; Intramural Basketball and Hockey.

MORENCY, RONALD, Dollar Bay, Michigan  
Civil Engineering; A.S.C.E.

MORGAN, DONALD G., Takoma Park, Maryland  
Electrical Engineering; Tau Beta Pi; Eta Kappa Nu; Rifle Club; Ski Club.

MURRAY, DANIEL N., Blasdell, New York  
Civil Engineering; Alpha Phi Omega, Treas.; Newman Club; Chi Epsilon, Treas.; A.C.S.E.; Counselor.

MUSIL, RONALD R., Berwyn, Illinois  
Mechanical Engineering; A.S.M.E.; Flying Club.

MYETTE, MICHAEL, Ironwood, Michigan  
Civil Engineering; Delta Sigma Phi; Lode Staff; A.S.C.E.; Intramural Sports.

NANCARROW, DONALD W., Houghton, Michigan  
Electrical Engineering; Alpha Phi Omega, Pres.; Blue Key; Varsity Rifle Team; AFROTC Rifle Team; Who's Who in American Colleges and Universities 1963.

NARRIN, FRED JAMES, Flint, Michigan  
Electrical Engineering; I.E.E.E.; Daniell Hts. Council; Army ROTC Cadet Council; Army ROTC Drill Team; S.A.M.E.

NELSON, JEROLD THOMAS, Frankfort, Michigan  
Applied Physics; A.I.P.

NEUMANN, DAVID, Watersmeet, Michigan  
Electrical Engineering.

NEUMANN, EDWARD S., Harvey, Illinois  
Civil Engineering; MTU Lode; S.A.M.E., Pres.; Phi Eta Sigma, Vice Pres.; DHH Dorm Council; Army ROTC, Intelligence Officer Distinguished Military Student.

NEWLAND, RICHARD THOMAS, Sarnia, Ontario  
Mechanical Engineering; Varsity Swimming.

NEZNANSKI, LAWRENCE STANLEY, Wakefield, Mich.  
Electrical Engineering; Newman Club; I.E.E.E.; Arnold Air Society.

NICHOLLS, JAMES GORDON, Cobalt, Ontario  
Mining; A.I.M.E.; Varsity Rifle Team; DHH Dorm council; Canterbury Club; Intramural Hockey.

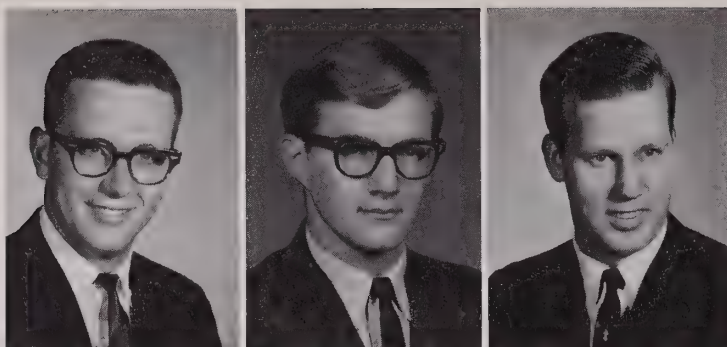
NICOLSON, JOHN A., Sault Ste. Marie, Ont.  
Forestry; Forestry Club, Pres.

NOE, PAUL P., Wausau, Wisconsin  
Metallurgical Engineering; A.S.M.; A.I.M.E.

NORTON, DAVID MICHAEL, Rhinelander, Wisc.  
Forestry; Forestry Club; Intramural Basketball.



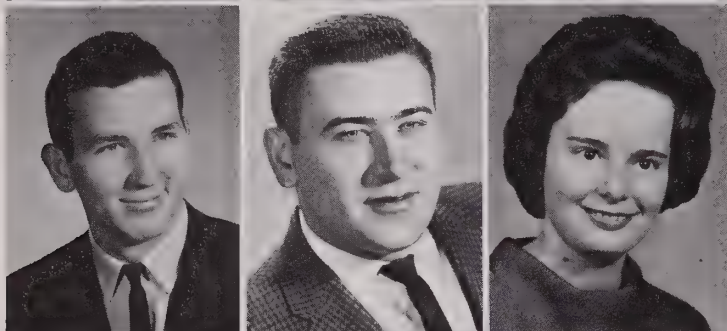




O'HAGAN, PATRICK ROBERT, Arlington Hts., Ill.  
Business Administration-Industrial Mgt. AFROTC Drill Team; Arnold Air Society; Newman Club; Flying Club; Phi Kappa Tau.

OLENDORF, BILL, Utica, Michigan  
Business Administration; Ski Club; Canterbury Club.

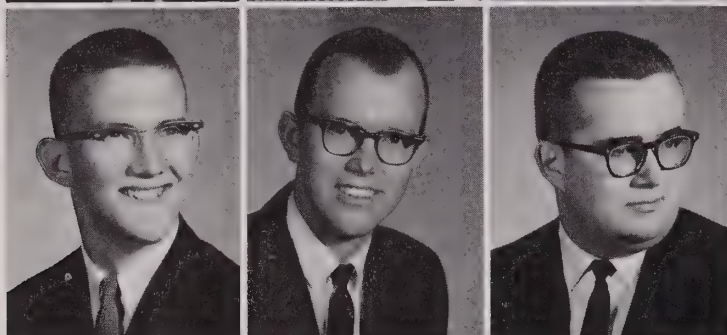
OLLILA, EARL DAVID, Mohawk, Michigan  
Civil Engineering; Football; Track.



OLSON, CHARLES J., Muskegon, Michigan  
Civil Engineering; A.S.C.E.; Intramurals.

OLSON, ROBERT H., Gaastra, Michigan  
Mechanical Engineering; A.S.M.E., Sec.; Sirs; Newman Club.

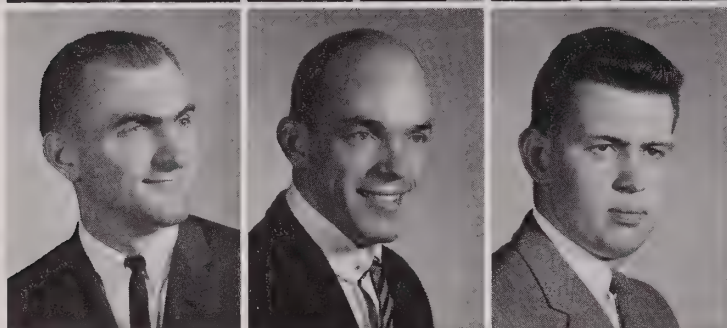
O'NEIL, KATHLEEN D., Calumet, Michigan  
Medical Technology; Phi Lambda Beta.



OSWALD, ROBERT J., Houghton, Mich.  
Electrical Engineering; Eta Kappa Nu, Pres.; Tau Beta Pi; I.E.E.E., Sec.

OTIS, STANLEY J., Sault Ste. Marie, Mich.  
Business Administration; A.I.M.E.; A.S.C.E.; Wesley Foundation; MTU Business Club, V.P. of Finance.

PARKARINEN, DAVID, Escanaba, Michigan  
Chemical Engineering; Phi Eta Sigma; Tau Beta Pi; Phi Lambda Upsilon; A.I.Ch.E.



PANEK, LAWRENCE T., Buffalo, New York  
Met. Engineering; Aquinas Club; A.S.M.; Daniell Heights Council.

PATTERSON, ALLAN R., Kimberley, B.C., Can.  
Business Administration; S.A.M.; Varsity Club; Varsity Hockey.

PEARSON, JOHN ALAN, Sault Ste. Marie, Mich.  
Civil Engineering; A.S.C.E.; Intramural Softball.

PEHRSON, DENNIS JAMES, Ludington, Michigan  
Chemical Engineering; Jr. Counselor; Senior Counselor; A.I.Ch.E.; Alpha Phi Omega.

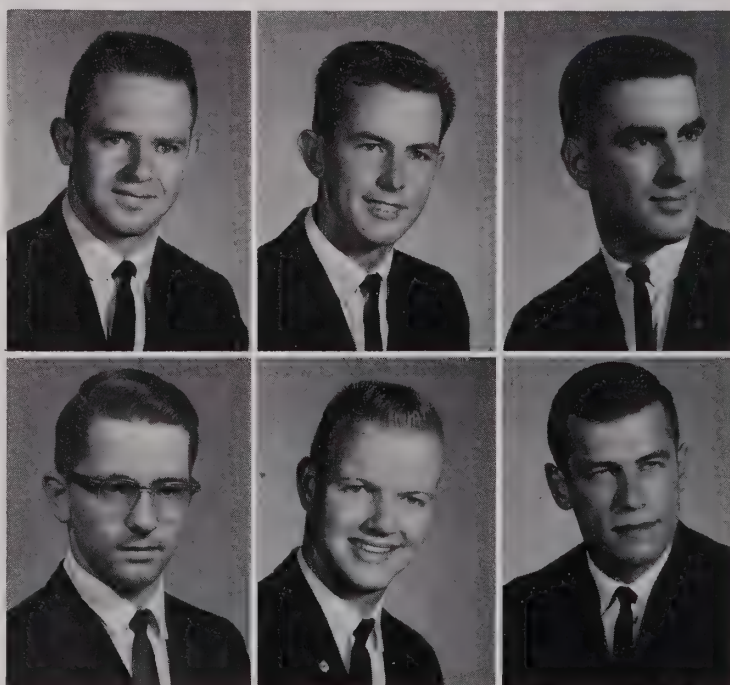
PEPPEL, JON HERBERT, Standish, Mich.  
Mechanical Engineering; S.A.E.; A.S.M.E.

PERRIE, ANDREW L., Detroit, Michigan  
Mathematics; Phi Kappa Tau; Phi Eta Sigma, Pres.; Newman Club; Keweenaw; Intramural Hockey, Volleyball; Phi Kappa Phi

PERRY, EDWIN S., Ishpeming, Michigan  
Chemistry; A.C.S.

PETERSON, LARRY J., National Mine, Mich.  
Chemical Engineering; A.I.Ch.E.; Phi Lambda Upsilon; Intramural Basketball.

PETRUSHA, ROBERT L., Ironwood, Mich.  
Metallurgical Engineering; A.S.M., Vice-Pres.; A.I.M.E.; Newman Club.





PHARO, KARL THORVALD, Arendal, Norway  
Civil Engineering.

PIERCE, OWEN GENE, Durand, Mich.  
Chemistry; A.C.S.; Varsity Rifle.

PIIPARINEN, RAYMOND, Hancock, Mich.  
Business Administration; Accounting Club; S.A.M.; Intramural Sports.

PIIRA, RAYMOND G., Sault Ste. Marie, Mich.  
Chemical Engineering; A.I.C.E.; S.A.M.E.; ROTC Rifle Team; Varsity Rifle Team.

POIRIER, DAVID J., Owosso, Michigan  
Metallurgical Engineering; Alpha Phi Omega; A.S.M.

POKORNY, GEORGE, Cary, Illinois  
Applied Physics.

PONG, THOMAS M., Muskegon, Mich.  
Metallurgical Engineering; A.S.M.; A.I.M.E.; International Club, Sec.; People to People.

POQUETTE, ROBERT MARK, Petoskey, Mich.  
Mechanical Engineering; ROTC Drill Team; A.S.M.E.

PRESLAN, WILLIAM L., Kenosha, Wisc.  
Geological Engineering; Superior Seals Skin Diving Club; Sigma Gamma Epsilon, Vice-President.

PRIBISH, STEPHEN JOHN, Joliet, Ill.  
Mathematics.

PRINE, HARRY E., Saginaw, Mich.  
Civil Engineering; W.H.A.; A.S.C.E.; Intramural Sports.

PROVANCHER, RONALD, Marinette, Wisc.  
Mechanical Engineering; Newman Club; A.S.M.E.; Pistol Club; Wadsworth Hall Sportsmen's Club, Vice-Pres.



PRUNESKI, JAMES C., Mt. Clemens, Mich.  
Electrical Engineering; Tau Beta Pi; I.E.E.E.; Student Counselor.

PUPPA, AGOSTINO, Kirkland Lake, Ontario  
Civil Engineering; A.S.C.E.; P.I.M. Alumni.

RAJPUT, SOHAN LAL, Punjab, India.  
Civil Engineering; International Club.

REBELLATO, EUGENE G., Sault Ste. Marie, Ont.  
Business Administration; Varsity Hockey Team; Varsity Club.

RELYEA, JACK DAVID, Flushing, Michigan  
Metallurgical Engineering; Newman Club, Pres.; Newman House, Sec.; A.S.M.; A.I.M.E.; Alpha Sigma Nu.

REUSCHEL, THEODORE M., Holland, Michigan  
Forestry; Forestry Club, Sec.; Ski Club; Flying Club; Beta Sigma Psi; Phi Eta Sigma; Blue Key.





REYNOLDS, BRUCE C., Rochester, N.Y.  
Mechanical Engineering; Alpha Phi Omega; Air Force Drill Team; Glee Club; A.S.M.E.; Intramural Basketball.

RICHEL, WALTER JOSEPH, Bay City, Mich.  
Electrical Engineering; I.E.E.E., Pres.

ROBERTS, WILLIAM R., Iron Mountain, Mich.  
Mechanical Engineering; A.S.M.E.

ROBORDS, MARY E., Ionia, Michigan  
Geology and Math; A.I.M.E.; Lode; Phi Lambda Beta, Vice Pres.; Sigma Gamma Epsilon.

RODAL, ROBERT BRIAN, Menominee, Mich.  
Mathematics.

ROGERS, DENNIS D., Sanford, Michigan  
Metallurgical Engineering; Alpha Sigma Mu; A.S.M.; Intramural Sports.

ROGERS, MICHAEL, St. Germain, Wisc.  
Forestry; Forestry Club; Intramural Sports.

ROOS, DAVID EDWARD, Negaunee, Michigan  
Mechanical Engineering; A.S.M.E.; S.A.E.

ROSE, JACK R., Kalamazoo, Michigan  
Civil Engineering.

ROSS, DAVID L., Marysville, Michigan  
Electrical Engineering; I.E.E.E.

ROWLEY, WILLIAM P., Bay City, Mich.  
Electrical Engineering; Alpha Phi Omega.

RUDDLELL, WILLIAM, Flint, Michigan  
Civil Engineering; Young Republican Club; Counselor D.H.H.

SABOURIN, LARRY P., Gladstone, Mich.  
Civil Engineering; Phi Kappa Tau; Intramural Softball.

SALIER, WILFORD, Marne, Michigan  
Mechanical Engineering.

SAMUELSON, LAWRENCE B., Harbert, Mich.  
Biological Engineering; A.I.M.E.

SANDRETTO, PETER P., JR., Hancock, Mich.  
Mechanical Engineering; S.A.E.; Phi Kappa Phi; Tau Beta Pi.

SANDEFORD, HENRY S., JR., Chicago Hts., Ill.  
Civil Engineering; A.S.C.E.; A.P.O.; Ski Club.

SANTILLI, JAMES N., Caspian, Michigan  
Mechanical Engineering; A.S.M.E.





SAUNDERS, THOMAS S., Toronto, Ont., Can.  
Mechanical Engineering; S.A.E.; A.S.M.E.

SAWICKI, WARREN L., Blasdell, N. Y.  
Business Administration; A.P.O.; Newman Club; Intramurals; A.I.M.E.

SAXTON, GARY LINCOLN, Newport Richey, Fla.  
Electrical Engineering; Intramural Sports; Band; Starliners, I.E.E.E.

SCHAEFER, RICHARD C., Goetzville, Mich.  
Mechanical Engineering; A.S.M.E.

SCHIEMAN, DAVID F., Port Huron, Mich.  
Electrical Engineering; Pistol Club; I.E.E.E.

SCHIEMAN, DENNIS M., Port Huron, Mich.  
Applied Physics; A.I.M.E.; S.A.M.E.; Pistol Club.

SCHINDEL, RONALD, Gladwin, Mich.  
Chemical Engineering; A.I.Ch.E.; Inter Varsity Christian Fellowship.

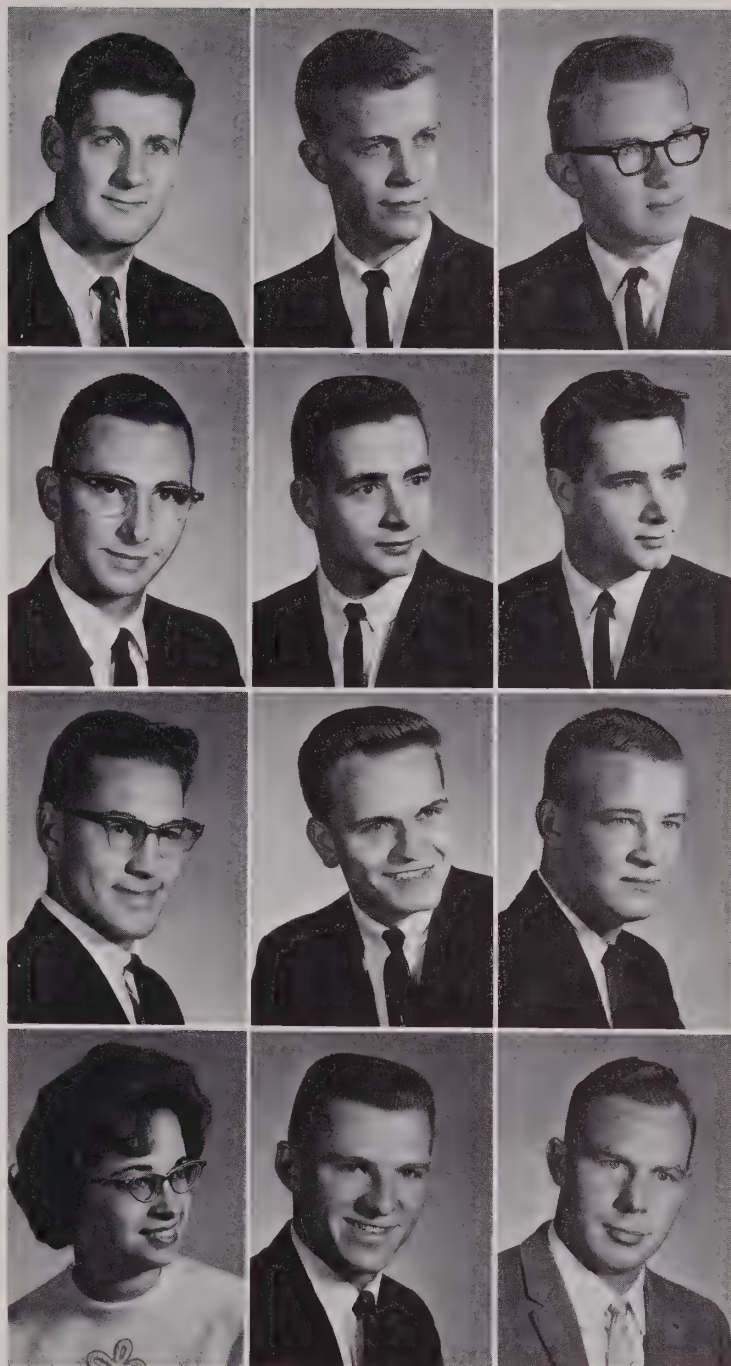
SCHMIDT, HOWARD, Bay City, Mich.  
Metallurgical Engineering; A.S.M.; A.I.M.E.; Alpha Sigma Mu.

SCHOPF, JAMES H., Wausau, Wisc.  
Mechanical Engineering; Delta Sigma Phi; Newman Club; Ski Club; A.S.M.E.; Intramurals.

SCHROEDER, CAROL ANN, Norwalk, Ohio  
Biological Sciences; Lode Editorial Staff; A.W.S.; B.I.O. Club, Treas.

SCHULTZ, JAMES A., Lancaster, N.Y.  
Forestry; Forestry Club; Newman Club; Dorm Court.

SCHWERIN, CHESTER H., Rhodes, Mich.  
Electrical Engineering; Wadsworth Hall Council; I.E.E.E.



SCOTT, RONALD E., Flat Rock, Mich.  
Civil Engineering; A.S.C.E.; Chi Epsilon; Tau Beta Pi.

SEIFERT, KENNETH J., Eagle River, Wisc.  
Civil Engineering; A.S.C.E.; Intramural Hockey.

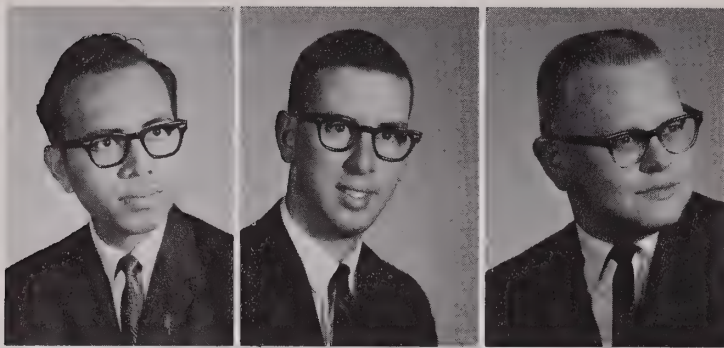
SEPPALA, JAMES W., Covington, Michigan  
Mechanical Engineering; S.A.E.; A.S.M.; A.S.M.E.

SEPPANEN, THEODORE ELMER, Trout Creek, Mich.  
Chemical Engineering; Independents; A.I.Ch.E.

SHENEFIEL, KERN FRANKLIN, Randolph, N.Y.  
Mechanical Engineering; A.S.M.E.

SHERRIFF, FRED, Hickory Corners, Mich.  
Mechanical Engineering; Theta Tau; Senior Class Treasurer; Junior Class Secretary.

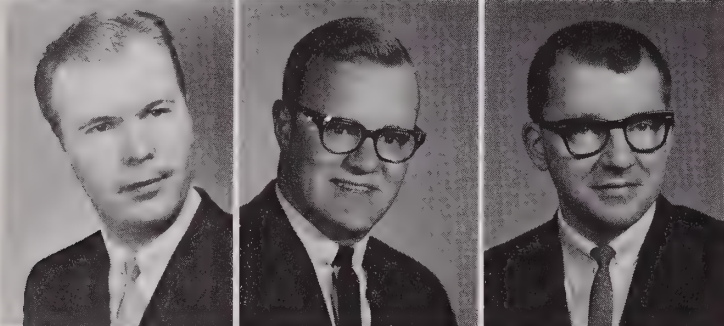




SHROFF, AVANTI, Bombay, India  
Civil Engineering; Tau Beta Pi; Chi Epsilon; Phi Kappa Phi; International Club.

SHUNTA, JOSEPH P., Muskegon, Michigan  
Chemical Engineering; Alpha Phi Omega; Phi Lambda Upsilon; A.I.Ch.E.

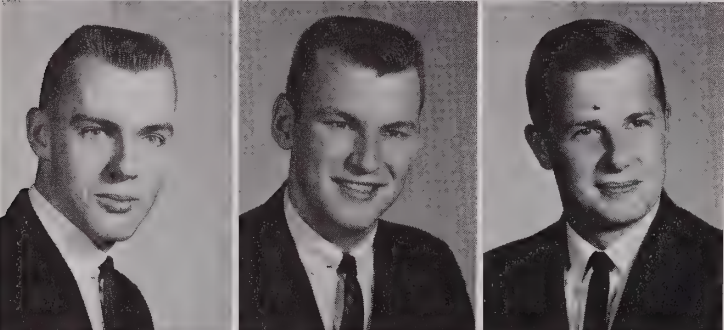
SIMONSON, WALTER ANDREW, Detroit, Mich.  
Mechanical Engineering; S.A.E.; A.S.M.E.



SIROLA, D. GRANT, Kirkland Lake, Ont.  
Metallurgical Eng. and Eng. Admin. Theta Tau; Ski Club; A.I.M.E.

SLOAN, RICHARD, Houghton, Michigan  
Chemistry.

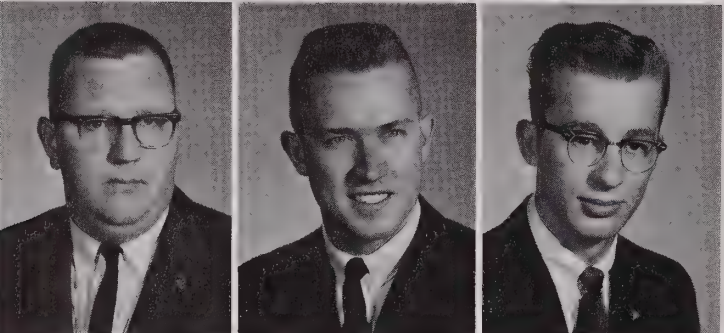
SMITH, JAMES L., Owosso, Michigan  
Electrical Engineering; Theta Tau, Alpha Phi Omega, Tri Beta, I.E.E.E.; Glee Club.



SMITH, MICHAEL G., Allen Park, Mich.  
Chemical Engineering; A.I.Ch.E.; S.A.M.E.

SMITH, ROBERT ROURKE, Houghton, Mich.  
Civil Engineering; A.S.C.E.; Theta Tau Fraternity.

STANLEY, WILLIAM E., Timmins, Ontario Mining; A.I.M.E.



STIBITZ, CHARLES N., Frankford  
Metallurgical Engineering; A.S.M.; Aquinas Club.

STICKNEY, THOMAS MICHAEL, Plymouth, Mich.  
Chemistry; Bowling; Intramural Sports; Varsity Rifle; ROTC Rifle Team; A.P.O.

SWITZER, GERALD, Ironwood, Mich.  
Business Administration; AFROTC Drill Team; Board of Student Publications; Accounting Club; Lode; MTU Business Club.

SYMEON, LUCAS N., Houghton, Mich.  
Mechanical Engineering; International Club.

TAKKU, PHYLLIS, Dollar Bay, Mich.  
Medical Technology; Phi Lambda Beta.

TAMPAS, PETER M., Sault Ste. Marie, Mich.  
Electrical Engineering; Intramural Hockey; E.E. Club.

TARVAINEN, OTTO M., Covington, Mich.  
Chemical Engineering; Tri-Beta; A.I.Ch.E.

TAYLOR, FRANK G., Blasdell, New York  
Civil Engineering; A.P.O.; A.I.C.E.; Varsity Club; Newman Club; Varsity Softball; International Club; Pres.-Wads. Hall Association.

TEN EYCK, MICHAEL B., Sault Ste. Marie, Mich.  
Applied Physics; Phi Eta Sigma, Pres.; Tau Beta Pi; Sigma Phi Epsilon; S.A.M.E.; A.I.P.; Varsity Rifle Team; Phi Kappa Phi.





THOMSON, FREDERICK HENRY, Detroit, Mich.  
Geological Engineering; A.I.M.E.

TOEPFER, WALTER JOHN, Toledo, Ohio  
Mining Engineering; A.I.M.E.; Intramural Hockey.

TOHM, LARRY, Midland, Mich.  
Mechanical Engineering; A.S.M.E. Varsity Track; Intramural Sports.

TOMAN, STERLING P., Binghamton, N.Y.  
Civil Engineering; A.S.C.E.; Daniell Hts. Council.

TORRES, PETER A., Long Island, N.Y.  
Electrical Engineering; Flying Club; International Club; Aquinas Club; Tri-Beta; Alpha Phi Omega; I.E.E.E.; Newman Club.

TORREY, WILLIAM W., Grand Blanc, Mich.  
Electrical Engineering; Sigma Rho; Daniell Heights Council; Intramural Sports.

TOSDALE, JACK PAUL, Iron Mountain, Mich.  
Metallurgical Engineering; A.S.M.; A.I.M.E.

TRAUTNER, DONALD G., Menominee, Mich.  
Civil Engineering; A.S.C.E.; Tau Beta Pi; Chi Epsilon, Pres.

TRIMBERGER, ROBERT GEORGE, Iron River, Mich.  
Metallurgical Engr. and Engr. Ad. A.I.M.E.; Theta Tau; Newman Club.

TRIVERS, ROBERT EDWARD, Sault Ste. Marie, Ont.  
Civil Engineering; A.S.C.E.

TROUSIL, GARY LEE, Ewen, Mich.  
Electrical Engineering; Intramural Basketball & Softball; Tau Beta Pi; I.E.E.E.

TRUAX, JOHN, Warren, Michigan  
Applied Physics; A.I.P.; United Campus Christian Fellowship, Pres.



TSUKAMOTO, WILFRED I., Kaauku, Hawaii  
Electrical Engineering; Phi Kappa Tau; Tau Beta Pi; Eta Kappa Nu; AFROTC.

TURNER, BRUCE EDWARD, Mt. Clemens, Mich.  
Electrical Engineering; I.E.E.E.; Arnold Air Society; Intramural Sports.

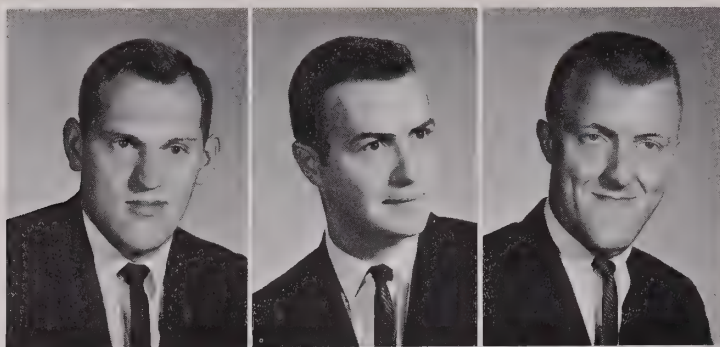
TURRIE, BRUCE L., Iron Mountain, Mich.  
Metallurgical Engineering; Intramurals; A.S.M.; A.I.M.E.; Alpha Sigma Mu.

TYLER, WILLIAM H., Willoughby, Ohio  
Forestry; Forestry Club; Intramurals; American Forestry Association.

UMBARGER, JOHN C., JR., Allen Park, Mich.  
Physics; Glee Club; Intramural Hockey; Ping Pong.

UNIS, WALTER ERIC, Kirkland Lake, Ont.  
Geological Engineering; A.I.M.E.; Intramural Sports; Recreation Director; AIME.

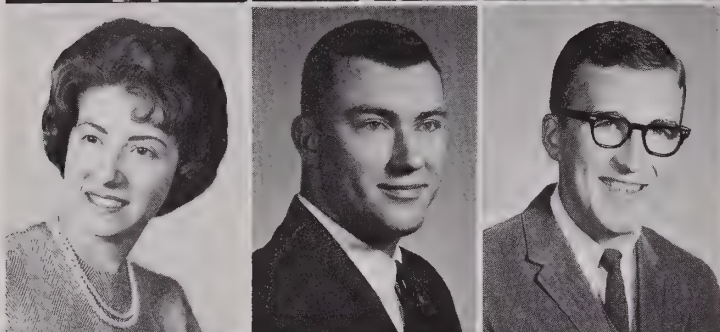




VAIRUS, GERALD KARDELL, Mohawk, Mich.  
Forestry; Intramural Sports; Forestry Club; Intramural Manager.

VANPATTEN, RUSSELL E., Hale, Mich.  
Mechanical Engineering; Sky Diving Club; Independents; A.S.M.E.

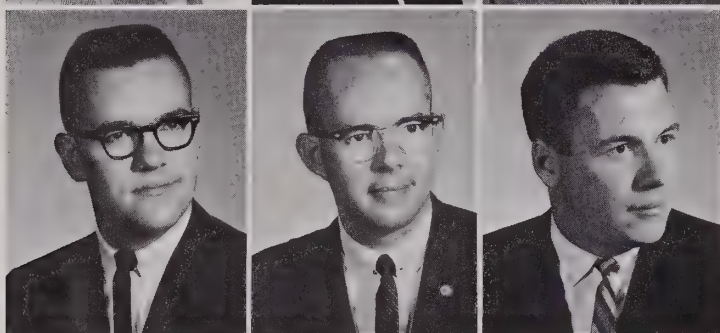
VAN UUM, DONALD ROBERT, Mentor, Ohio  
Electrical Engineering; Intramural Sports; I.E.E.E.; Eta Kappa Nu, Sec.; Tau Beta Pi.



VERVILLE, PATRICIA, Hancock, Mich.  
Medical Technology; Phi Lambda Beta.

VIEGELAHN, GARY, Rogers City, Mich.  
Electrical Engineering; Student Council; EE Club.

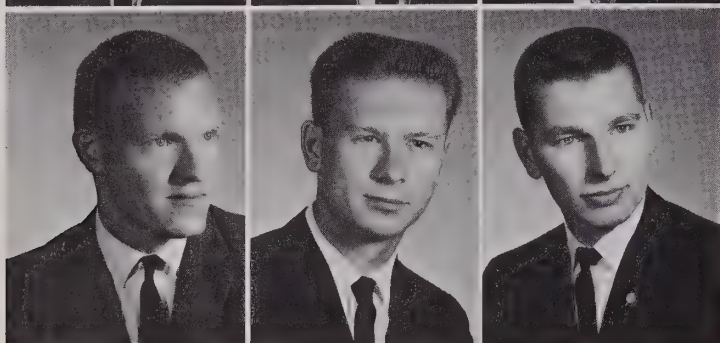
VOLIN, THEODORE PAUL, Houghton, Mich.  
Mathematics.



WAIT, DONALD E., Arlington Heights, Ill.  
Applied Physics; A.I.P., Pres.; I.E.E.E.

WARREN, JON HAROLD, Waukegon, Ill.  
Forestry; AROTC; Intramural Sports; Forestry; AROTC Drill Team.

WATSON, SCOTT C., Orkney, Sask., Canada  
Business Administration; Varsity Hockey; Accounting Club; Varsity Club.



WEBSTER, ALAN R., Groton, New York  
Forestry.

WEINERT, CARL JOSEPH, Iron Mtn., Mich.  
Chemical Engineering; A.I.Ch.E.; Intramural Sports.

WELDUM, THEODORE A., Rock, Mich.  
Mechanical Engineering; S.A.E.; A.S.M.E.; Varsity Track; Intramural Sports.

WELLER, DANIEL W., Niles, Michigan  
Forestry; Delta Sigma Phi; Daniell Heights Council; Forestry Club.

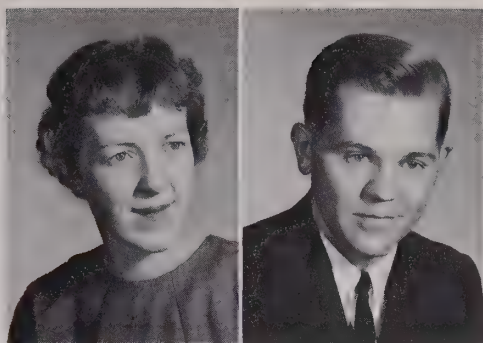
WELLS, STEPHEN W., Charlevoix, Mich.  
Engineering Administration; Rocket Society.

WENGER, LEON E., Ade, Michigan  
Geological Engineering.

WHIPPLE, JAMES W., South Range, Mich.  
Forestry.

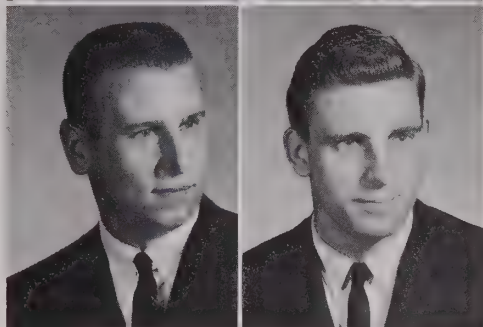






WHITE, SHARON ANN, Hancock, Mich.  
Biological Science.

WIITANEN, RICHARD MATTHEW, Hancock, Mich.  
Business Administration; Intramural Sports.



WIKARYASZ, ROGER THEODORE, Alpena, Michigan  
Civil Engineering; A.S.C.E.; Newman Club; Intramural Softball; Intramural Basketball.

WILLERTON, JAMES ARTHUR, JR., Rocky River, Ohio  
Metallurgical Engineering; Alpha Sigma Mu; Intramural Weightlifting; Army ROTC Rifle Team; A.S.M.

WILLMOTT, PAUL KENNETH, Grauenhurst, Ont.  
Mining Engineering; A.I.M.E.; Delta Sigma Phi.

WILLSON, VERNON ROBERT, Columbiaville, Mich.  
Elec. Engineering & Eng. Admin. Tri Beta; I.E.E.E.; Wesley Foundation.

WIMMER, NORMAN, Montreal, Quebec  
Business Administration; Varsity Hockey.

WINES, ROGER, Dearborn, Mich.  
Business Administration—Acc.; Delta Sigma Ph; Varsity Club; Wadsworth Hall Council, Sec.; Varsity Football; WDHH Radio.

WITTER, GERALD J., Iron Mtn., Mich.  
Metallurgical Engineering; A.S.M.; A.I.M.E.

WOLBRINK, JACK L., Grand Rapids, Mich.  
Metallurgical Engineering; Delta Sigma Phi, Vice Pres.; Alpha Sigma Mu; Concert Lecture Series; Intramural Board; A.S.M.; A.I.M.E. Varsity Softball.

WOOD, DENNIS, Fraser, Mich.  
Metallurgical Engineering; AFROTC; A.S.M.; Intramural Bowling.

WORMAN, WILLIAM EARL, Orchard Lake, Mich.  
Mechanical Engineering; Rocket Society, Pres.

WRIGHT, WILLIAM W., Alpena, Mich.  
Electrical Engineering; Newman Club; Aquinas Club; I.E.E.E.; Intramural Sports.

WYTHER, FRANK A., Holt, Michigan  
Civil Engineering; Basketball; A.S.C.E.

YOURKOSKI, JAMES, Vulcan, Mich.  
Electrical Engineering; I.E.E.E.; Newman Club.

ZUIDEMA, MICHAEL, Muskegon, Mich.  
Forestry; Newman House; Newman Club; Forestry Club; Blue Key.



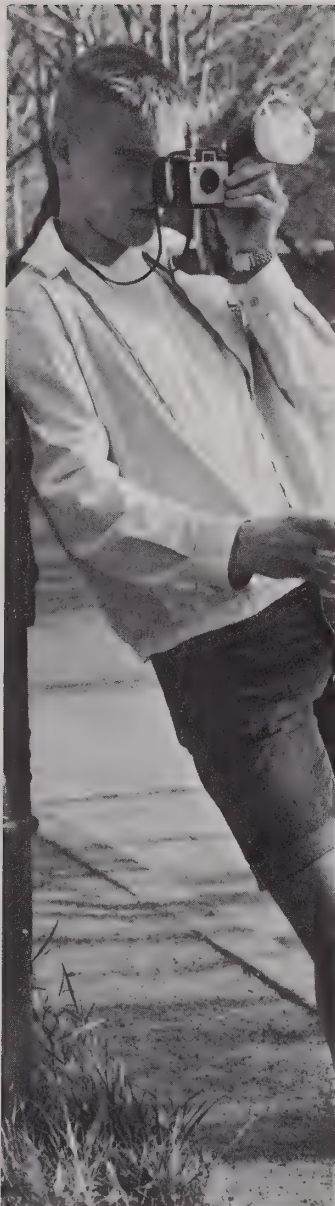


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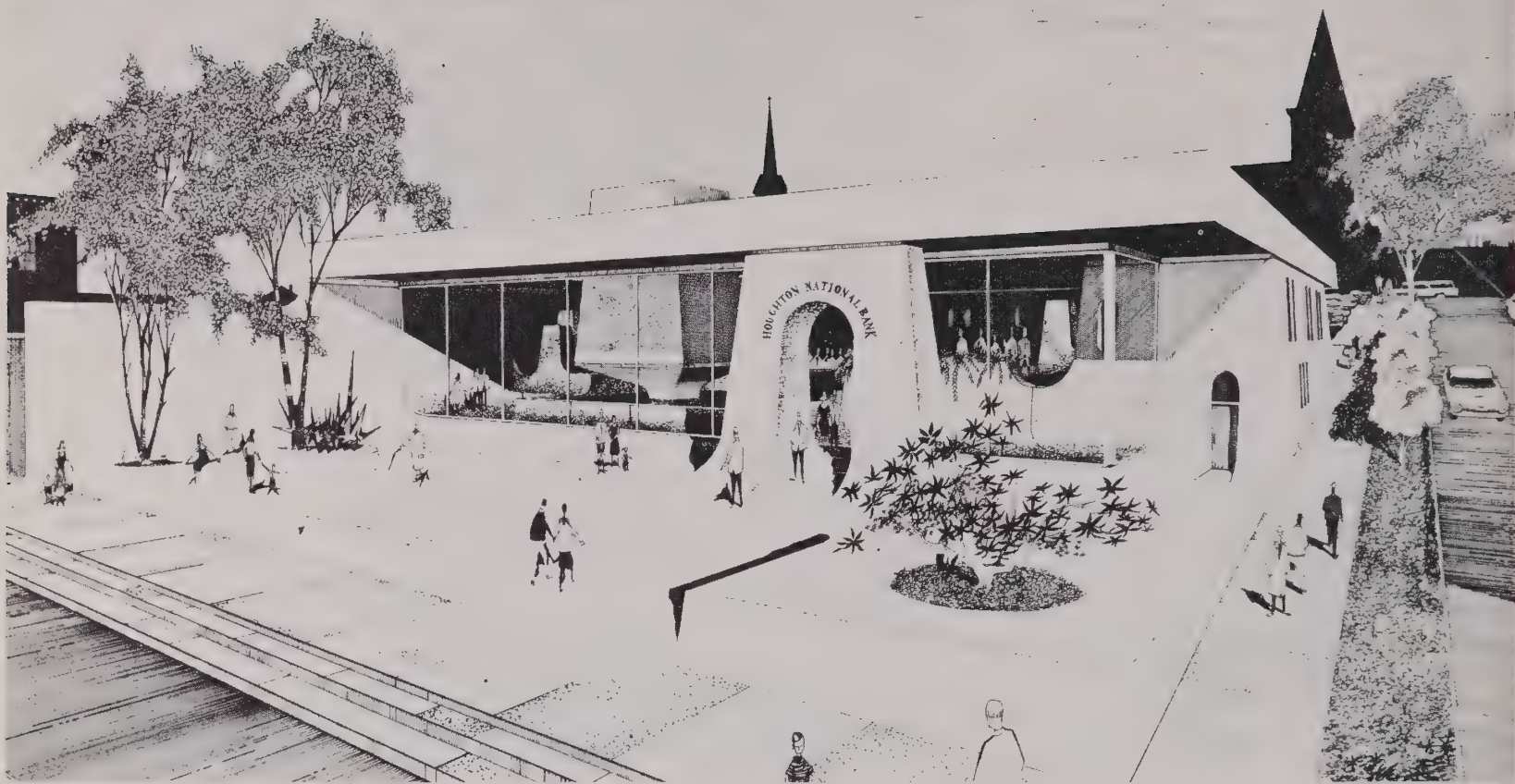
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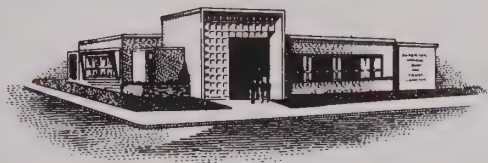
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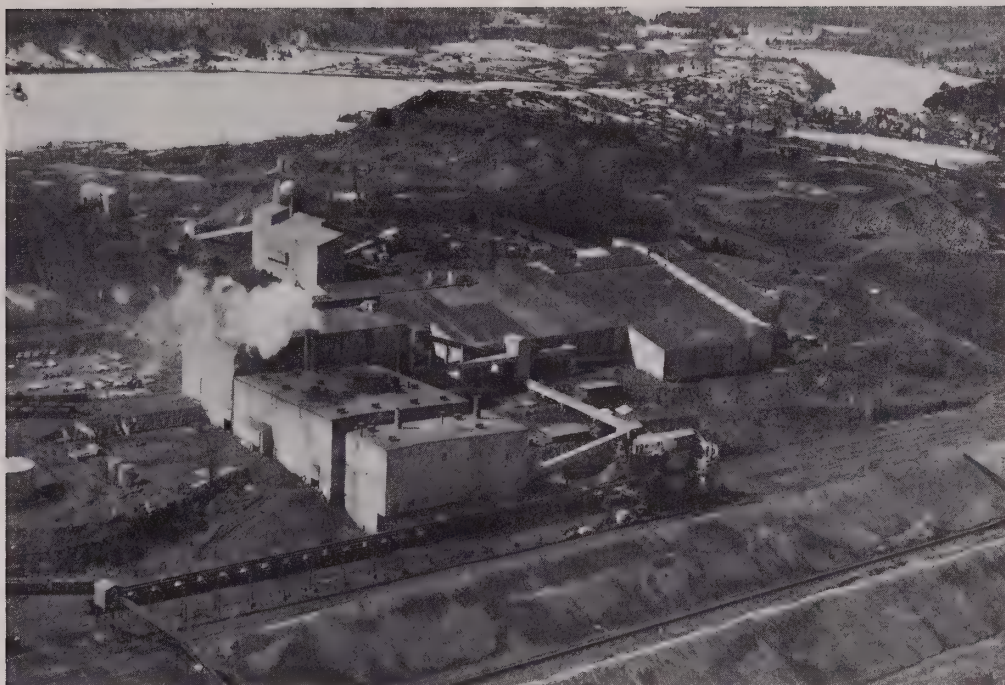
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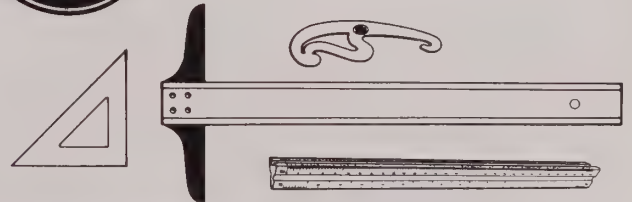
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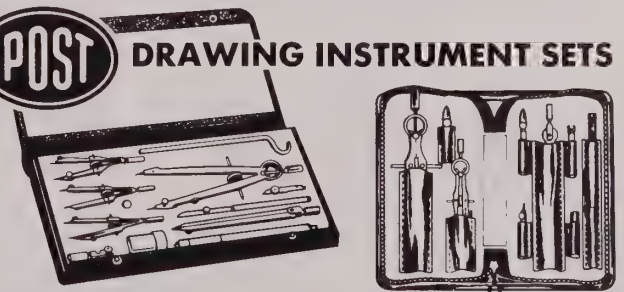
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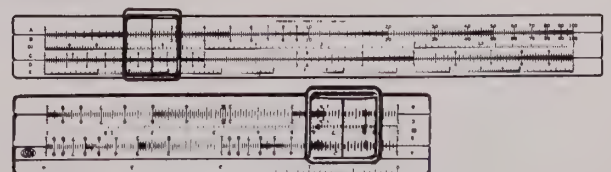
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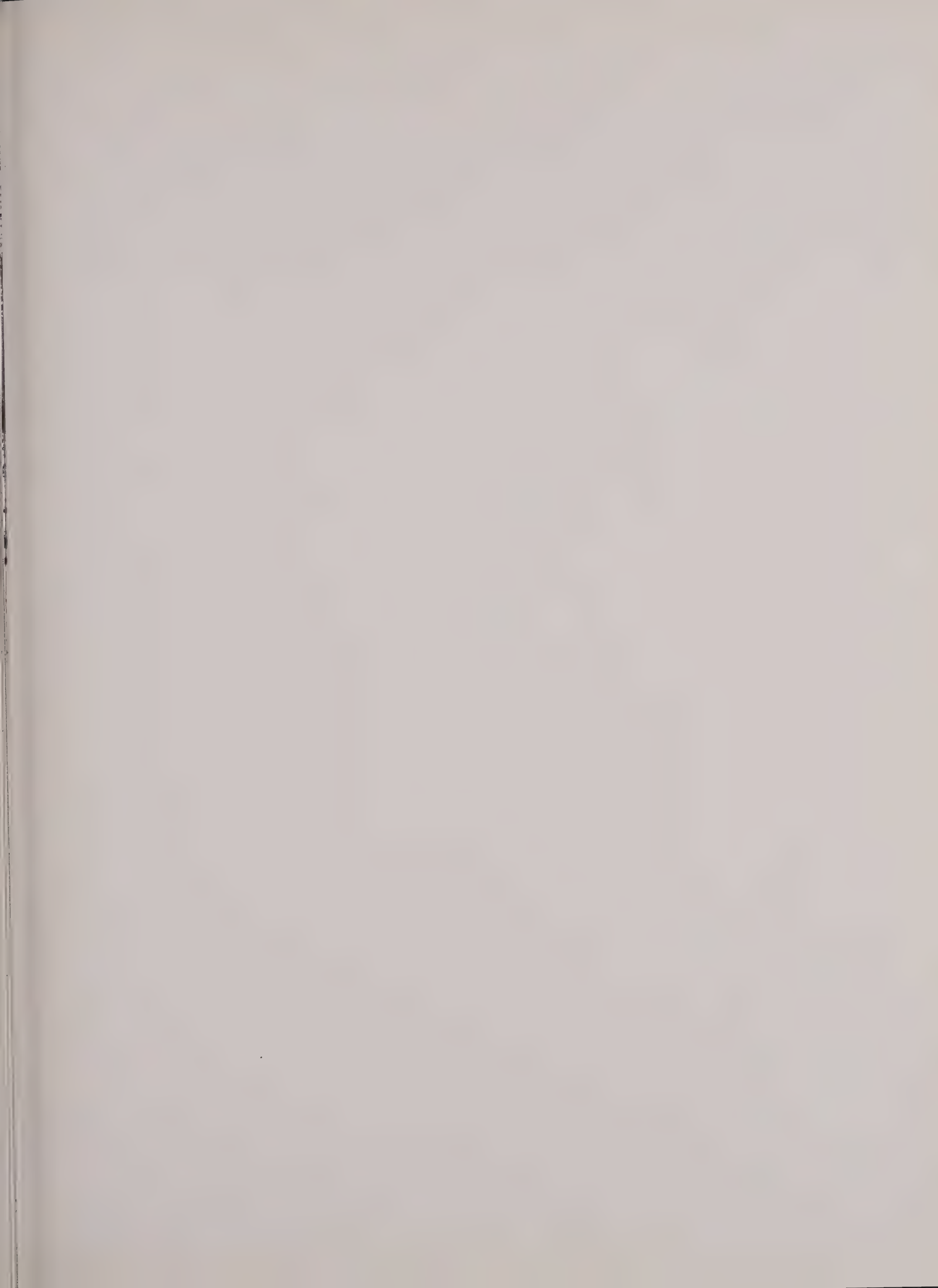
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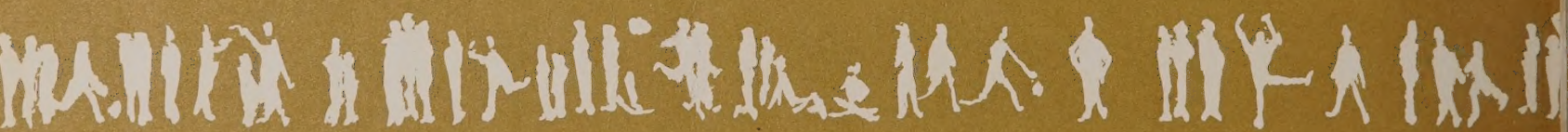




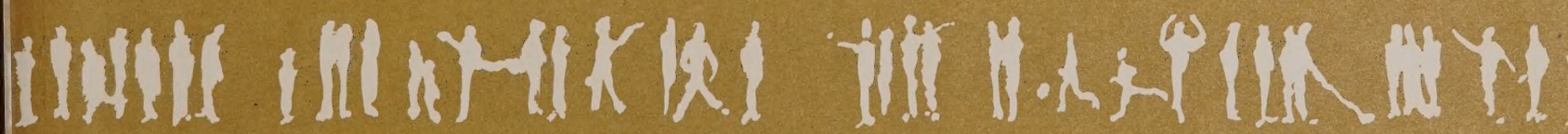














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